

Airport Emergency Plan

Advisory Circular 150 / 5200-31 A

Date: September 30, 1999







Federal Aviation Administration

Advisory Circular

Subject: AIRPORT EMERGENCY PLAN

Date: 9/30/99 AC No: 150/5200-31A Initiated by: AAS-300 Change:

- 1. PURP 0 SE. This Advisory Circular (AC) provides guidance to the airport operator in developing and implementing an Airport Emergency Plan (AEP). The AEP ensures the safety and service for people and the community in which the airport is located. The AEP should be a functional, comprehensive, and well-coordinated document. This AC addresses the following:
- a. Organization of information in the AEP so that it is easily retrievable, especially under stressful conditions.
- b. Systematic approach for determining all of the hazards that warrant emergency preparedness.
- c . Involvement of the local communities in emergency preparedness so that their expertise and resources are incorporated to the mutual benefit of all parties.
- 2. CANCELLATION. AC 150/5200-31, Airport Emergency Plan, dated January 27, 1989, is cancelled.

3. APPLICATION. The FAA recommends the guidelines and standards contained herein for the development of Airport Emergency Plans. This AC is not mandatory and does not constitute a regulation. This AC provides guidance in meeting the requirements outlined in 14 CFR part 139.325, Airport Emergency Plan. An airport operator may elect to follow an alternative method, provided it is also found by the Federal Aviation Administration (FAA) to be an acceptable means of complying with Title 14 of the Code of Federal Regulations, Chapter I - FAA, DOT, part 139, Certification and Operations: Land Airports Serving Certain Air Carriers (14 CFR part 139). Therefore, mandatory terms such as "shall" or "must" used herein apply only to those airports for whom the use of these guidelines is mandatory, such as those airports expending funds allocated under Federal grant assistance programs or funds received from the Passenger Facility Charge program. The standards contained in this AC should be used for the development of new AEPs and are to be implemented at all part 139 certificated airports no later than one year **from** the date of this AC.

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CHAPTER 1. THE AIRPORT EMERGENCY

- 1-1 INTRODUCTION. Airports differ in complexity, but each has unique features. Some are small, uncomplicated facilities serving a more rural environment, while others represent a good sized community complete with residential, industrial, and commercial installations serving major metropolitan areas. Airports are operated by the local government such as a city or county; or by an Authority representing multiple local governments; and even some are operated by the State. However, one thing they all have in common is that they are all subject to emergencies.
- 1-2 **DEFINITION.** An airport emergency is any occasion or instance, natural or man-made, that warrants action to save lives and protects property and public health. The AEP should address those emergencies that occur on, or directly impact, an airport or adjacent property that: 1) is within the authority and responsibility of the airport to respond; or 2) may present a threat to the airport because of the proximity of the emergency to the airport.

NOTE: Throughout this Advisory Circular (AC), the terms "emergency," 'disaster," "hazard," and "crisis" are frequently used interchangeably to represent any situation which presents a threat to public health and safety.

1-3 GENERAL. An emergency can occur anywhere, at any time • day or night, under any weather condition, and in varying degrees of magnitude; it can occur instantaneously or develop slowly; it can last only a few minutes or go on for days. It can be natural, such as a hurricane or earthquake, or it can be "man-made", such as a hazardous materials spill, civil unrest, major fire, or power outage. Moreover, emergencies of the same type can differ widely in severity, depending on factors such as degree of warning, duration, and scope of impact. The important thing to remember is that, while emergencies can seldom be exactly predicted, they can be anticipated and prepared for.

The potential for disaster exists everywhere, and the cost in suffering, life, and property can be devastatingly high. Since emergencies am perceived as low probability events and because preparedness requires cost in time and finances, the importance of such planning can often be overlooked. However, airports and communities that experience such disasters can pay a high price if they are not prepared. In addition to health and safety problems, social disruption, lawsuits, negative publicity, and psychological after-effects may result. While every contingency cannot be anticipated and prepared for, a strong emergency preparedness program can assist in limiting the negative impact of these events, including liability and other post-emergency issues.

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CHAPTER 2. PRELIMINARY CONSIDERATIONS

2-1 PLANNING **GUIDANCE AND STANDARDS.** Virtually no airport has sufficient resources to respond to every emergency situation independently. Each airport must depend to some degree on the resources from its surrounding communities. For this reason, each airport operator is encouraged to involve local communities in the development of the AEP and use the collective expertise and resources for the mutual benefit of all parties.

Under the Robert T. Stafford Disaster Relief and Emergency Assistance Act, Public Law 93-288, as amended, the elected officials of the communities that own and operate airports are legally responsible for ensuring that necessary and appropriate actions are taken to protect people and property from the consequences of emergencies and disasters. These communities must also develop emergency preparedness programs to assist the local and state emergency management officials in complying with emergency preparedness responsibilities, the Federal Emergency Management Agency (FEMA) has published the State and Local Guide (SLG 101), Guide for Ail-Hazard Emergency Operations Planning, September, 1996. SLG 101 provides emergency managers and other emergency services providers with information regarding FEMA's concept for developing risk-based, all-hazards Emergency Operations Plans (EOPs).

Since it is extremely important for airport operators and off-airport emergency response agencies to coordinate their preparedness efforts, the information presented in this AC has been based primarily on the guidance provided in SLG 101, both in content and format. This should help provide a standardized basis for the development of the AEP and assist in the overall coordination with the local community EOP.

The regulations, standards, and guidance used in the development of this AC may be found in the Bibliography. Some examples include: FAR Part 107, Airport Security, Part 108, Airplane Operator Security, Part 109, Indirect Air Carrier Security, ICAO Airport Services Manual, Part 7, Airport Emergency Planning; National Fire Protection Association (NFPA) 424, Airport/Community Emergency Planning; NFPA 1600, Recommended Practice for Disaster Management; the Federal Response Plan; and others.

- 2-2 COMPREHENSIVE EMERGENCY MANAGEMENT (CEM). As indicated in SLG 101, there are no typical emergencies and there am no typical or standard preparedness plans that am ideal for all airports or communities. However, some common phases to preparedness for disasters can provide a systematic approach for planning purposes. This systematic approach is found in the Comprehensive Emergency Management (CEM). It is a process that recognizes four separate, but related actions:
 - a. Mitigation
 - **b.** Preparedness
 - c. Response
 - d. Recovery

Each planning action is treated as a phase of a comprehensive process, each building on the other (Reference Figure 2-1).

2-3 **AEP** AND CEM. The AEP does not need to reflect all four phases of CEM. Rather, its focus should be mainly on response and initial recovery issues. Detailed Mitigation Plans, Administrative Plans, or Recovery Plans can be handled separately.

2-4 AIRPORT EMERGENCY PLAN (AEP).

The AEP is a document that:

- a. Assigns responsibility to organizations and individuals for carrying out specific actions at projected times and places in responding to an emergency.
- **b. Sets** forth lines of authority and organizational relationships, and shows how all actions should be coordinated.
- c. Describes how people and property will be protected in emergencies and disasters.
- d. Identifies personnel, equipment, facilities, supplies, and other resources available-within the airport or by agreement with communities-for use during response and recovery operations.

 ℓ . As a public document, cites its legal basis, states its objectives, and acknowledges assumptions.

f. Facilitates response and short-term recovery to set the stage for successful long-term recovery.

FIGURE 2-1. COMPREHENSIVE EMERGENCY MANAGEMENT

MITIGATION	actions that can prevent, alleviate, or diminish the potential effects of a disaster situation	
PREPAREDNESS	actions that enhance emergency response capabilities	emergency plans, training, drills and exercises
RESPONSE	time-sensitive actions to save lives and property, reduce the possibility of secondary damage, and speed recovery operations	mobilizing emergency response personnel and equipment, conduct search and rescue, alerting the public, evacuation
RECOVERY	actions that restore the airport/community to pre-emergency conditions	crisis counseling, long-term medical assistance, reconstruction, rehabilitation, public information programs, hazard-reduction programs

CHAPTER 3. THE PLANNING PROCESS

- 3-1 OBJECTIVE. This chapter offers suggestions for the process of developing or updating an Airport Emergency Plan (AEP). If followed, the process may be as useful to the airport and the emergency response community than the final plan itself. As discussed below, **this** process can be easily tailored to meet the specific needs of each **airport**, regardless of size.
- 3-2 REVIEWING OTHER PLANS. As indicated in Chapter 2, the development of the AEP need not, and should not, start from scratch. The AEP should build on what exists in the surrounding communities, such as an Emergency Operations Plan (EOP) or other emergency plans and/or procedures. These should be reviewed applicability and functionality. Also, critiques should be gathered from previous drills and exercises or actual emergencies to help establish a sense of what needs to be done.
- 3-3 ESTABLISHING AN AEP TEAM. With all of the specialized areas needed for a total AEP, i.e. -medical, fire, law enforcement, hazardous materials, etc., it is virtually impossible for any one individual to put together the necessary detail to develop a tmly functional

AEP and supporting procedures. The team approach offers the following benefits:

- a. Better participation and commitment by all participants involved with the AEP.
- b. More knowledge and expertise are brought into the planning process.
- c. Closer professional relationships among response and recovery personnel during the planning process to ensure better coordination and teamwork during emergencies.
- d. Potential Team Members. The AEP team should consist of those individuals /organizations that have a potential role in the airport's emergency response program. The need for this is further reinforced by the requirements established in 14 Code of Federal Regulations (CFR), 14CFR part 139.325 (g) (2) which states that the airport certificate holder shall "...To the extent practicable, provide for participation by all facilities, agencies, and personnel . . . in the development of the plan."
- e. A representative list of potential team members can be found in Figure 3 -1.

FIGURE 3-1. AEP PLANNING TEAM MEMBERS

	AEP Planning Team Members	
1 Air carriers	13. Emergency Medical Services	25. National Weather Service
2. Air Traffic Control	14. EPA	26. NTSB
3. Aircraft operators	15. EOD	27. Police/Security
4. Airport Authority/Mgmt.	16. FAA	28. Post Office
5. Airport employees	17. Firefighting & Rescue	29. Public Information/Media
6. Airport tenants	18. Government authorities	30. Public Works & Engineering
7. Animal Care / Control	19. HAZMAT Response Team	31. Public Utilities
8. Clergy	20. Health & Medical	32. Red Cross
9. Coast Guard/Harbor Patrol	21. Hospitals	33. Resource Support
10. Communications Services	22. Mental Health Agencies	34. Search & Rescue
11. Coroner	23. Military/National Guard	35. Civil Air Patrol
12. Emergency Mgmt. Agency	24. Mutual Aid Agencies	36. Morgue

The Airport Manager, Airport Authority Chair, or other appropriate Chief Executive(s) **should** also be a part of the team. Preparation for a disaster, requires team leaders to understand the hazards analysis process and its **associated** results, and their respective roles during emergencies, Team leaders should **also** review information describing past, disasters similar to those which could occur **on** the airport, as well as readiness assessments and exercise critiques, and potential liability issues.

3-4 AEP RESEARCH.

- a. Review. At certificated airports, an AEP need not only address the requirements established in 14CFR part 139.325. There are other regulations, standards, and guidance relating to emergency preparedness which may be applicable and which should be addressed and utilized in an AEP. Additional documents that should be reviewed for applicability include:
- (1) **Regulations,** Standards, and Guidance.
 - (a) 14 CFR Part 107, Airport Security.
- (b) 14 **CFR** Part 108, *Airplane* Operator Security.
- (c) 14 CFR Part 109, Indirect Air Carrier Security.
- (d) 40 CFR Part 311, Worker Protection 'standards for Hazardous Waste Operations and Emergency Response (SARA);
- (e) 29 CFR Part 1910.120, Hazardous Waste Operations and Emergency Response (HAZWOPER).
 - (f) 29 CFR Part 1910.1200, Hazard Communication.
 - (g) State and Local Regulations.
 - (h) 49 CFR Parts 171-180 Subchapter C, Hazardous Materials Regulations.
 - (i) ICAO Technical Instructions (ref. 49 **CFR** 171.11).

(j) International Air Transport Association, Dangerous Goods Regulations.

- (k) National Response Team, NRT-1, Hazardous Materials Emergency Planning Guide.
- (l) Airport Joint Use Agreements with the Department of Defense.
- (m) National Search and Rescue Manual (USCG/JCS).
 - (n) Federal Response Plan.
- (0) National Fire Protection Association (NFPA) 424, Airport/Community Emergency Planning.
 - (2) Existing Plans.
 - (a) Airport Emergency Plan.
 - (b) Air Carrier Emergency Plan(s).
 - (c) Airport Tenant Emergency Plan(s).
 - (d) Local Emergency Operations Plan(s).
 - (e) Local Emergency Services Plans.
- (f) Local Industry OSHA/EPA Compliance Plans.
- (3) Existing Mutual Aid Agreements/Memoranda of Understanding.
 - (a) Airport agreements.
 - **(b)** Local emergency response agreements.
 - (c) Private sector organization agreements.
 - (d) Military installation agreements.
 - b. Conduct a Hazard/Risk Analysis.
- (1) The main purpose for conducting a Hazard/Risk Analysis is to help the planning team determine what hazards exist, what actions must be planned, and what resources are recommended. There are many types of programs available to assist in this process, some of which can be complex. The planning team should check with the local emergency management officials to determine if such an analysis has already been accomplished. If not, or if the analysis is dated, a simple Airport/Community Hazards Analysis Program has been provided in Appendix 1.

(2) It is important to include as many people/organizations as possible from both the airport and surrounding communities when doing the analysis. This provides **information across** a broad spectrum and avoids limiting the outcome to only one or two areas of expertise.

- (3) Once the hazards have been identified and prioritized, the planning team should create scenarios and brainstorm needed hazard-specific planning provisions and hazard-specific resource requirements. Starting with a given intensity of a hazard, the team can imagine the hazard's development from initial warning (if available) to its impact on a specific part of the airport/community and its generation of **specific** consequences (e.g. loss of critical services and infrastructure; death, injury). This information can then be further refined **through** drills and **tabletop** exercises.
- (4) Maps for some hazards analysis are available through FEMA and State emergency management agencies, the U.S Geological Survey (USGS) and State geological surveys, and the National Weather Service (NWS). For more localized hazards, maps from the Federal Insurance Administration (FIA), maps of the 10-and 50- mile Emergency Planning Zones (EPZ) around nuclear power plants, and any maps of HAZMAT sites prepared by the Local Emergency Planning Committee (LEPC) would be useful.
- (5) Historical data is also available through Federal, State, and County hazards analyses. Further, Red Cross disaster records can be checked and long time residents of the area can be contacted.
- c. Resource Base. Planning team members should know what resources are available for emergency response and recovery. In particular, airport operators should know what is available on the airport and what they may need **from** off-airport for specific emergencies. Shortfalls may require negotiating agreements with private suppliers or other jurisdictions. Determination of the resource base should also include a consideration of what facilities are vital to emergency operations and how they may be affected by hazards. In the overall community EOP, the airport probably should be listed as a vital facility for many emergencies and given priority to resource allocation for response and recovery activities. It is important to note that problems that cannot be mitigated should be

addressed in the AEP.

- d. Special Facets. The planning team should note special geographic and topographic features, which may affect operations. For example, the airport may have only one runway or limited access roads, or there may be bridges that could be destroyed during an earthquake, etc. Provisions for special needs groups, such as **hearing-or** mobility-impaired individuals, also should be identified. Other factors to be considered include:
- (1) An aircraft submerged in water or surrounded by ice.
- (2) An accident involving an aircraft and a building structure.
- (3) A hurricane that knocks out the phone lines or computer system or isolates a significant number of people on your airport.
- (4) Conditions that only a trained or experienced observer would recognize as being dangerous. **AEP** preparers should try **and** locate observers from the airport staff or from the surrounding community for advice on identifying such conditions.
- 3-5 DEVELOPMENT OF THE AEP. The process of developing the AEP includes the following items:
- a. A rough draft of all components of the AEP to serve as a point of departure for the **planning** team.
- b. A meeting, to establish committees for parts of the AEP, appoints committee chairs, develop a time line, and schedule a follow-up meeting.
 - c. Work with committees on successive drafts.
 - d. Prepare necessary graphics, charts, maps, etc.
- e. Produce a final **draft** and circulate to the **planning** team for review and comment
- **f.** Obtain concurrence from organizations with identified responsibilities for implementation of the AEP.
- **g.** Present the final document to the appropriate chief executive for promulgation.
- **h.** Print and distribute the AEP to all parties with duties and responsibilities under the plan Maintain a

record of AEP distribution and limit distribution to a need-to-know basis.

NOTE: Those portions of the AEP' which contain sensitive information, e.g. security-related, home telephone numbers, etc., should be distributed only to those persons/agencies with a need-to-know.

- 3-6 VALIDATION. Once the AEP has been completed, it should be checked for conformity to the applicable regulation(s) and standards, and to ensure it works **as planned**. There are two basic ways to validate:
- a . Consult with the local community emergency management officials regarding its plan review cycle. Since much of the information in communities plans may be incorporated in one form or another in the AEP, it would seem appropriate to become a part of their review process and to take advantage of improvements suggested as a result of their accumulated experiences.
- b. Conduct **tabletop** and full-scale exercises. These offer the best way, **short** of an actual emergency, to determine if an **AEP** actually works and is understood.
- 3-7 TRAINING, DRILLS, AND EXERCISES. It is important that the people assigned to support the AEP are familiar with their roles and responsibilities and have been tested through drills and exercises.

a. Training.

- (1) Objective. The on and off-airport personnel who respond to emergencies **are** the most vital elements of an airport's emergency response capability. Their training is essential for responding effectively to emergencies by making optimum use of facilities, equipment, and vehicles. The emergency procedure guidelines presented in this section address the following issues:
- (a) Airport personnel's knowledge of the AEP, its facilities, equipment and vehicles.
- (b) Emergency response organizations' (e.g. fire, medical, and police) knowledge of their responsibilities relative to the

AEP, its facilities, equipment, and vehicles.

- (2) Familiarization. There is a need for on- and off-airport personnel to be familiar with each other's equipment and facilities. It is especially important that off-airport personnel become familiar with the unique operating environment of an airport (e.g. security requirements, the hazards of moving aircraft, communications, etc.) This familiarization becomes critical during nighttime operations and other periods of low visibility.
- (3) General. Initial training of airport personnel should be primarily devoted to Standard Operating This general tmining should be Procedures (SOPs). provided to all airport employees. Certain airport., as well as other emergency response personnel, should receive specialized training based on their individual job responsibilities. A word of caution • many times, and often due to lack of manpower resources, individuals may be assigned a job for which they are not emotionally prepared or capable (e.g. maintenance personnel assigned to carry stretchers or otherwise help at an accident site may end up being "victims" due to the emotional tramna experienced by proximity to severely injured people). Further, periodic training should be scheduled in order to prevent loss of knowledge and skills over time.
- (4) Initial training. A goal of initial training should be to ensure all airport employees are familiar with the following:
- (a) Standard Operating Procedures (S 0 P s). Airport operators should establish guidelines for handling all normal, abnormal, and emergency operations. The procedures contained in the Hazard-Specific Sections of the AEP are the best place to start.
- (b) Layout of Facilities. Familiarization with the airport's facilities is critical. Films, video tapes, walking and bus tours should emphasize the location of normal and emergency exit controls (to include security procedures), communications equipment, and other safety features of the facilities.
- (c) Communications Equipment. Airport personnel should be familiar with the location, protocols, and use of communication equipment, i.e. telephone, two-way radio, fax, e-mail, etc. to communicate with on-airport and responding mutual aid agencies. Only priority information should be transmitted during emergencies.
- (d) Emergency Equipment. Personnel should know where specialized emergency equipment associated with their assigned duties is located and its use.

All personnel should be instructed to report lost, stolen, and vandalized equipment. Emergency related equipment that is out of service for any reason should be reported immediately and provisions for temporary replacement made.

- (5) Specialized Emergency Training. Airport operators should conduct a cycle of specialized training courses, followed by periodic refresher training. Simulation drills should be used to provide training, as well as to determine additional training needs.
- (a) General. Depending on specific job responsibilities, airport personnel should receive specialized training for each of the emergencies identified in the airport's Hazards Analysis. Even if an individual's responsibility is nothing more than to stand by at a specific location to await assignment, training and procedure should reflect that responsibility. Specialized training should include the following:
- <u>1</u> Procedures for assisting the handicapped and elderly during an emergency.
- 2 Separate training for individual Standard Operating Procedures based on the AEP.
- and objectives to ensure responsibilities are understood.
- (b) Air Traffic Control (ATC). Because ATC often initiates the response to an emergency, coordination between ATC and the AEP should be explored with respect to :
- $\underline{\mathbf{1}}$ Details of the fixed facilities.
- **2** Capabilities, limitations, and typical failure modes of aircraft, power, and communications systems.
- (c) 0 ther Personnel. Operating and supervisory personnel, maintenance personnel, and airport security should know. appropriate responses to the emergencies included in the airport's Hazard-Specific Sections, such as:
- $\underline{\mathbf{1}}$ Aircraft incidents and accidents.

<u>2</u> Bomb incidents, including designated parking area(s) for any aircraft involved.

- $\underline{\mathbf{3}}$ Structural fires (or other non-aircraft fire such as a fuel farm fire).
- $\underline{\mathbf{4}}$ Natural disasters as identified in the airport's Hazards Analysis.
 - <u>5</u> Hazardous materials incidents.
- **<u>6</u>** Sabotage, hijacking incidents, and other unlawful interference with operations.
- $\underline{\textbf{7}}$ $$ Failure of power for movement area lighting.
 - **8** Water rescue situations.
 - 9 Crowd Control
- (d) Passenger Emergency Care Training. Airport operators should provide emergency care training to appropriate employees. Emergency care training may include the following:
- $\underline{\mathbf{1}}$ First aid treatment of hemorrhages, bruises, and abrasions.
- **2** Recognition and immobilization of individuals with head and back injuries.
- **3** Cardiopulmonary resuscitation (CPR).
- <u>4</u> Treatment of respiratory blockages and convulsions.
- (e) Crowd Control and Panic Prevention. Airport personnel training should include crowd control and panic prevention techniques.
- (6) Refresher/Retraining Programs. Airport operators and employees should under-stand the importance of repeated and updated training. Refresher/retraining programs should be instituted to accomplish the following:
- (a) Inform employees of changes in processes and/or equipment.
- $\begin{tabular}{ll} \textbf{(b)} & Reinforce a segment of the program for an individual who has not performed properly. \end{tabular}$

- (c) Maintain employee skills at a level enabling them to execute their responsibilities effectively.
- (7) Training Methods and Equipment. Airport operators should devise a training handbook with formal methods for training their personnel. Formal methods include, but are not limited to, classroom instruction, on-site familiarization, and emergency training drills (for airport personnel, emergency response personnel, and the public). Regular training should be used to identify inconsistencies in operating rules, SOPs, and personnel duties.

(a) Classroom Instruction.

1 Rules, SOPS, and Emergency Procedures. Classroom instruction should explain rules, SOPs, and emergency procedures. Discussions of the information should be thorough, and examinations should be given to test comprehension.

<u>2</u> Audio-visual (AV) Training Programs. AV training programs can be developed to show specific procedures each airport unit should follow. These, combined with mock-ups, can substantially enhance classroom instruction.

- (b) On-site Familiarization. On-site familiarization includes on-the-job training, walking tours, demonstrations, and/or hands-on practice sessions.
- (8) Emergency Response Organization Personnel Training. To ensure a coordinated response, the airport operator should offer training in airport emergency procedures to local police, firefighters, ambulance personnel, paramedics, emergency management agencies, the media and **other** off-airport emergency response organizations. The training should include the following:
- (a) Formal presentations and discussions of the airport's AEP, facilities, equipment, and normal and emergency operating procedures.
- (b) Tours of the airport to highlight features described in the formal presentation and to familiarize personnel with the layout and topography of the airport. Emphasis should be

placed on the special operating conditions at the airport, such as security and access control, communications requirements, and aircraft-related hazards.

(c) Participation in all levels of drills and exercises, to include the triennial full-scale exercise which is only required of those airports certificated under part 139.

b. Drills and Exercises

- (1) Objective. The AEP provides the framework that enables airport and community fire, security, medical, and other resources to join in an effective, coordinated response to airport emergencies. By using any of several types of airport emergency drills, airport operators and community emergency resource managers can accomplish the following:
- (a) Produce an integrated emergency plan that provides a response based upon need and emergency location.
- (b) Ensure readiness in the procedures and coordination needed to accomplish an effective emergency response in minimum time.
- (c) Confirm the functionality and effectiveness of their plans and procedures under controlled conditions and make changes as needed.
- (d) Improve emergency responder confidence in the plan as well as becoming more familiar with the facility, and resources.
- (2) Types of Exercise. **FEMA's** Guide to Emergency Management *Exercises*, SM 170.2, February, 1997, defines an exercise as "au activity designed to promote emergency preparedness; test or evaluate emergency operation, policies, plans, procedures or facilities; train personnel in emergency management duties; and demonstrate operational capability." FEMA has identified five elements or types of exercises that **constitute** an exercise program, with each one building on the concepts of the previous exercise. This necessitates the performance of a lower level exercise before conducting a higher level exercise. Those five exercise types are:
- (a) Orientation Seminar. This seminar involves bringing together those with a role or interest in the AEP (e.g. airport, ARFF, law enforcement, EMS, air carriers, media, airport tenants, etc.) to discuss the AEP and initial plans for upcoming drills and exercises, as well as to become familiar with the roles, procedures, responsibilities, and personalities of all those involved.

(b) Drill. A drill is the lowest. level exercise and tests, develops, or maintains skills in a single emergency response procedure. A drill may focus, for example, on the emergency notification process to determine the effectiveness and timeliness of notifying participating personnel/organizations. A drill is considered a necessary part of ongoing training.

- (c) Tabletop Exercise. The tabletop exercise is a higher-level test than the drill and is designed to provide training and evaluate plans and procedures and to resolve questions of coordination and assignment of responsibilities in an informal, non-threatening format without concern for time constraints, stress levels, or actual simulations.. The methodology of the tabletop exercise is by discussion in a meeting format through a facilitator. Effectiveness is determined by feedback from participants and the impact this feedback has on evaluating and revising policies, plans, and procedures. There is no utilization of equipment or deployment of resources. Therefore, all activities are simulated and participants interact through discussion.
- (d) Functional Exercise. The functional exercise is the highest level test that does not involve the full activation of **airport** and off-airport emergency **personnel** and facilities. The functional exercise is designed to test or evaluate the specific capabilities of the participants for several functions under a **stress**-induced environment with time constraints and actual simulation of specified events. In other words, it can test **within** specified limits the internal airport and the external responses of **off**-airport emergency response agencies.
- (e) Full-Scale Exercise. The fallscale exercise is the most comprehensive test and is intended to **evaluate** the operational capability of the **emergency** management system in a stress environment with actual mobilization and deployment to demonstrate coordination and response capability. It uses all resources and requires reaction from equipment and personnel that would normally be available if the exercise were an actual emergency. The FAA requires a full-scale demonstration of the emergency plan every three years of those airports certificated under 14 CFR part 139. This full-scale demonstration requires a simulated emergency, as it would in an actual aircraft disaster, for full certificated airports commensurate with the index

of the airport, to ensure that all personnel having duties and responsibilities under the plan are familiar with assignments and are properly trained.

- (3) Exercise Development. The following steps are common for the development of any of the above drills/exercises:
- (a) Needs Assessment. The first step in the process is to identify difficult areas of the emergency preparedness program. Hazards Analysis can determine these needs. The drill/exercise priorities may be better placed on those hazards, which present the highest vulnerability factor. However, for the purpose of part 139 the triennial exercise must be an aircraft accident indicative of the airport's Index.
- (b) Defining the Scope. The best mechanism for dealing with the problem may be that, for a complex problem, it would be best to start out with a series of small drills followed by a **tabletop** exercise. In defining the scope of an exercise, five components need to be addressed in the developmental stage:
- **1** The types of on- and off-airport activities or procedures to be exercised.
 - **2** The parties to be involved.
 - **3** The degree of realism desired.
- $\underline{\mathbf{4}}$ The hazard or the selection of high priority problem.
- $\underline{\mathbf{5}}$ The geographical area where the problem could occur.
- (c) Statement of Purpose. It is recommended that a statement of purpose be developed which clearly and concisely explains why the drill/exercise is being conducted. At this point the drill or exercise can be announced, the necessary **coordination** accomplished, and the date and location established. This step may be **modified**, as needed, i.e. it may be an unannounced drill/exercise; **therefore** the information released, if any, would be limited.
- (d) Goals/Objectives. One of the most important steps in the drill/exercise program is deciding exactly what should be accomplished by expending the time, funds, and efforts of **airport** and community emergency **planners** and responders. The needs assessment, scope, and Statement of Purpose should be examined very closely during this process. Caution should be exercised in determining the number of goals/objectives for any

given exercise; to avoid confusion and fmstmtion, they should be limited and focused. Further, any goals/objectives established should be specific, credible, and realistic, yet challenging, resultsoriented, and measurable. For example, a goal of a communications drill may be: "... to notify all required response agencies within two minutes from initiation of the drill...."

- (e) Scenario. After the type of exercise and goals/objectives has been established, a scenario or narrative should be written which sets the scene for the drill/exercise. It is important to remember that the scenario should be written in such a manner that it supports the defined goals/objectives. The complexity of the scenario will depend on the type of exercise, i.e. a tabletop exercise scenario can and should, be mom complex than a communications drill, Complicating factors such as limited communications capability or hazardous cargo can be used, once again depending upon defined goals/objectives and type of exercise. Although airport planners may be responsible for scenario development, they may need expert assistance in drafting specific details for scenarios, which go beyond airport operations, particularly if some type of natural disaster is to be used.
- (f) Messages/Problem Statements. Some types of exercises will involve the development of a major sequence of events list, a detailed sequence of events list, and messages or problem statements. While the exercise narrative provides the participants with a certain amount of information, the major sequence of events list itemizes the events, from the beginning of the exercise to the conclusion that will require a response by the airport or responding agencies. The detailed sequence of events lists the details for each major event The messages or problem statements, which are primarily used for drills and tabletop exercises, come from the major and detailed sequence of events list. The messages and problem statements am intended to provide the participants with sufficient information so that they will be able to respond with an action or decision.
- (g) Evaluation/Critique. A system for assessing the success of the exercise, and ultimately the AEP, should be developed. The assessment should involve a qualified **evaluation team**, as well as the participants. The evaluation

team should:

- $\underline{\mathbf{1}}$ Have full access to the scenario and exercise site.
- $\underline{\mathbf{2}}$ Be qualified in, and focus on, one functional area.
- Be provided with, and complete, an exercise evaluation form (critique sheet).

N OTE: A sample Exercise Checklist may be found in Appendix 2.

An immediate post-exercise critique should be held, followed by a mom detailed **evaluation** report. A critique is a debriefing of the participants where information is discussed as to what went right and areas, which need improvement. The critique should be both oral and written. The formal **evaluation** consists of a brief written report that is based on observations and recommendations that come from the participant's critique, as well as from the official evaluators.

(4) Other Concerns.

- (a) Hazard Control. Because of the intense activity characteristic of most full-scale exercises, if not managed carefully, the exercise itself can cause accidents. Two of the most common potential hazards am as follows:
- <u>1</u> Air Operations Area access. During most exercises, the airport will continue to run normally. Because many of the exercise participants will be unfamiliar with aircraft operations, many could unintentionally end up in the way of aircraft, resulting in an accident. Some preventive actions include:
 - a) Restrict access to the airfield.
- b) **Define** precise checkpoints where airport personnel can log vehicles onto the field.
- c) Brief personnel on desired routes to the site.
- $\begin{tabular}{ll} d) & Set up a traffic flow system that \\ will separate people and vehicles from aircraft. \\ \end{tabular}$
- e) Assign safety people to monitor the movement of people and vehicles.
- **2** Injuries. Because of the combination of people and moving equipment, personal

injuries may occur. Volunteer "Victims" may fall off backboards, trucks or ambulance may collide with each other or people. Because of the situation, it may be difficult to differentiate between real and simulated injuries. Therefore, participants should be provided with an easily remembered code word signifying that they have a real injury.

- Volunteer victims need instructions on the behavior emergency survivor's display. These instructions can come from fire, rescue, EMS, or medical personnel.
- $\underline{4}$ Liability. Because of the potential for injury discussed earlier, it is important for the exercise planners to address all liability issues in advance.
- (b) Public Awareness/Notification. Airport emergencies, whether real or simulated, are highly visible events that are of great interest to the public. To prevent alarm, airport operators should notify the community in advance that a drill would be in progress. It is also a good idea to make periodic announcements during the exercise, including in the terminal; ATC should be requested to inform arriving and departing aircraft of the exercise in order to avoid undue concern.
- (c) Media Awareness/Notification. The local media should be informed of upcoming exercises and invited to participate. Exercises can provide an opportunity for establishing a productive and positive relationship with the media. During an emergency, the media will very actively seek information, so exercises provide an excellent opportunity for testing mechanisms, which will allow the media to gather their information without interfering with emergency operations.
- (5) Corrective Actions. One of the major purposes of exercises is to identify areas within the emergency preparedness program, which may need improvement. Therefore, it is essential that, once all of the critique and evaluation reports have been reviewed, corrective actions in the form of plan and procedure revisions, training, and a new series of drills and exercises takes place.

c. Maintenance. The AEP is a living document. Problems develop, situations change, gaps become apparent, federal requirements **are** altered. The AEP **must** be adapted to remain useful and up-to-date.

(1) A remedial action process:

- (a) Helps planning teams identify, illuminate, and correct problems with the airport's AEP.
- (b) Captures information from exercises, post-disaster critiques, self-assessments and audits which may indicate deficiencies exist.
- (c) Brings members of the planning team together to discuss the problem, and to consider and assign responsibility for **consective** actions.

(2) A revision process should:

(a) Be a recurring activity, accomplished at least on an annual basis.

NOTE: It is recommended that any AEP documents which contain specific names and/or telephone numbers be updated on a quarterly basis.

(b) **Provide** information needed to allow the planning team to keep the AEP current.

(3) Implementing Documents:

- (a) Ensure that each tasked organization or individual develops the **SOPs** necessary to facilitate the accomplishment of assigned tasks.
- (b) The AEP does not anticipate every detail of the tasks it describes $\, \bullet \,$ but the details are important to its implementation.

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CHAPTER 4. PLAN FORMAT

4-1 INTRODUCTION. Even if it contains all of the pertinent information, poor organization of information can be the downfall of any document, including the **AEP**.

The FAA does not mandate a particular format. However for airports certificated under 14 CFR part 139, the FAA recommends the use of the guidance in this publication If the. document contains the recommended information and if it is functional, i.e. the users are familiar with the content and can find the information they need when they need it, then the format is good. If, however, during drills, exercises, actual response, plan review, etc., that test is not met, then some change in format may be in order.

4-2 CONCEPT. A critical component of the planning process for responding to emergencies is to identify all of the common tasks, or *functions*, **that** must be performed, assign responsibility for accomplishing **.each** function, and ensure that the assigned individuals/organizations have prepared **SOPs** that describe in detail how they will carry out their assigned tasks, and how they interface with the overall program.

AEPs may be developed using the functional approach, which provides for a document consisting of four major components (reference Figure 4-1):

- a. Basic Plan.
- **b.** Functional Annexes.
- c. Hazard specific Sections.
- d. SOPs and Checklists.

4-3 COMPONENTS

- **a. Basic Plan.** The Basic Plan provides an overview of the airport's emergency response organization and its policies. Its major functions include:
- (1) Citing the legal authority for emergency operations.
- **(2)** Summarizing t h e situations addressed by the AEP.

- (3) Explaining the general concept of operations.
- (4) Assigning responsibilities for emergency planning and operations.
- (5) If applicable, is designed to meet the regulatory requirements of 14 CFR part 139 with a minimal amount of detailed information. The details may be contained in the Hazard-Specific Sections, Standard Operating Procedures and Checklists as described below.

NOTE: To assist airport operators certificated under 14 CFR part 139 to comply with the emergency plan requirements outlined in part 139.325, an AEP Review Checklist has been developed (reference Appendix 3).

- **b. Functional** Annexes. Functional annexes are plans organized around the performance of broad tasks, e.g. direction and control, communications, health and medical, etc. Since functional annexes are operations oriented, their target audiences are those who perform the tasks. They do not repeat general information contained in the Basic Plan. For the purposes of the AEP, Functional Annexes usually include:
 - (1) Direction and Control.
 - (2) Communications.
 - (3) Alert & Warning.
 - (4) Emergency Public Information.
 - (5) Protective Actions.
 - **(6)** Law Enforcement.
 - (7) Fire & Rescue.
 - **(8)** Health & Medical.
 - **(9)** Resource Management.
 - (10) Operations & Maintenance
 - c. Hazard-Specific Sections.

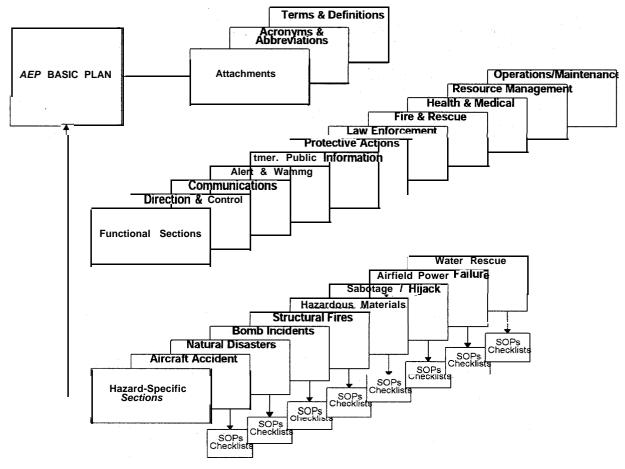
Hazard-specific Sections provide additional detailed information applicable to the performance of a

particular function in support of a particular hazard. They are prepared when the Hazards Analysis and regulatory considerations warrant. These documents, along with their associated SOPs and Checklists, are usually "stand alone" • for example, if there is a bomb threat, the Bomb Threat Section can be pulled from the AEP and used to support the incident • there should be no need to reference the Basic Plan or Functional Annexes during the emergency.

- **SOPs and Checklists. SOPs** and Checklists provide detailed instructions that an individual or organization needs to fulfill responsibilities and perform tasks assigned in the AEP. Most SOPs and Checklists are hazard-specific and attached to each Section.. For example, the airport law enforcement agency may have a general SOP for Traffic and Access Control or for Terminal Evacuation with supporting individual checklists for the Shift Supervisor, Ramp Patrol, etc. Additionally, these documents should provide enough detail to cover the basic response and recovery functions necessary to get the job done, but still are general enough to be flexible for no two emergencies are the same. And remember, emergencies happen at the worst possible time • so try to determine what the worst case scenario for each emergency would be and develop your SOPs and checklists accordingly.
- 4-4 SUMMARY. Creating a different plan for each hazard is an option, but one that is not recommended. The functional approach described above:
- a. Avoids duplication of the planning effort for every hazard, and for every task, by dividing the AEP into four levels (Basic Plan, Functional Annexes, Hazard-specific Sections, and SOPs).
- **b.** Provides an easy-to-use mechanism for organizing all pertinent information.
- c. Serves in all-hazard situations, even unanticipated ones, by organizing the AEP around performance of "generic" functions.
- d. Permits emphasis on hazards that pose the greatest risk to an airport and surrounding communities, through use of Hazard-specific Sections.
- e. Provides the flexibility needed to allow airports of all sizes to adapt to their specific needs based upon available resources and their specific situation.

FIGURE 4-1. AIRPORT EMERGENCY PLAN STRUCTURE

AIRPORT EMERGENCY PLAN STRUCTURE



1- Recommend one section for each identified natural hazard

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CHAPTER 5. BASIC PLAN

- 5-1 INTRODUCTION. The Basic Plan provides an overview of the airport's approach to emergency operations. It generally defines related policies, describes the response organization, and assigns tasks. The primary purpose of the Basic Plan portion of the AEP is to meet the informational needs of the airport's executive body and other agency heads. It often serves as a mechanism for outlining what hazards the AEP addresses without getting bogged down in detail.
- 5-2 INTRODUCTORY INFORMATION. The AEP should normally be prefaced with certain items that both enhance accountability as well as make it easy to use. These items normally include:
- a. Promulgation Document. This is usually a letter or form signed by the Airport's governing body. It gives the AEP official status and provides both authority and responsibility for organizations to perform assigned tasks. The promulgation document can also discuss the tasked organizations' responsibility to prepare and maintain SOPs and commit them to the training, exercises, and plan maintenance efforts needed to support the AEP.
- b. Signature Page. Some airports may choose to include a signature page to show that all response organizations tasked in the AEP have coordinated in the plan's development and are committed to its effective implementation. If the AEP is for an airport certficated under 14 CFR part 139, this type of page may be useful in meeting the plan coordination requirements established in part 139.325.
- c. Dated Title Page. The title page should contain the date of publication, as well as the date of the latest revision.
- d. Record of Changes. A record of changes can be a chart containing a number assigned to any change, a description of the change, the date of the change, the date of actual entry into the AEP, and the signature or initials of the person(s) responsible for the change.
- e. Record of Distribution. The Record of Distribution can be used to provide evidence that tasked individuals and organization have had the opportunity to read and understand their responsibilities. To that end, copies may be numbered and the record may show both a date of transmittal

and a date on which receipt is confirmed.

- f. Table of Contents. A Table of Contents makes finding information easier and provides a quick overview of the document.
- 5-3 PURPOSE. The Basic Plan should contain a general statement of what the AEP is meant to do. It should be supported by a brief synopsis of the Basic Plan the Functional Annexes, and the Hazard-specific Sections.
- 5-4 SITUATION AND ASSUMPTIONS. This section narrows the scope of the AEP by outlining what hazards the AEP addresses (as drawn from the Hazards Analysis); what characteristics of the airport may affect response activities and how; and what information used in preparing the AEP must be treated as assumption rather than fact. Policies can be included as a part of the situation or in a separate section, if desired. It is valid to include even "obvious" assumptions: that identified hazards will occur, that individuals and organizations are familiar with the AEP and will execute their assigned responsibilities, that assistance may be needed, and that assistance will be available, if applicable.
- 5-5 OPERATIONS. The purpose of the Basic Plan is to provide an overall sequence and scope of the planned emergency response. In the Concept of Operations the airport's overall approach to an emergency situation is detailed, i.e. what should happen, when, and at whose direction, to include potential inter-jurisdictional responsibilities.
- ORGANIZATION AND ASSIGN-MENT 5-6 OF RESPONSIBILITIES. This section of the Basic Plan establishes the emergency organization that will be relied on to respond to an emergency situation. It includes a listing by position and organization responsibilities, along with related tasks to be performed. It provides a "snapshot" view of who does what without a lot of the procedural details that am found in the Functional Annexes. When two or more organizations perform the same kind of task, one should be given primary responsibility with the others given a supporting role. A matrix of organizations and areas of responsibility should be included to show at a glance the primary and supporting roles (reference Figure 5-1 for an example).

FIGURE 5-1. EMERGENCY RESPONSE ORGANIZATION RESPONSIBILITY MATRIX

	Arport Manager/Chief Executive	Fire Department	Police Department	Health & Medical Coordinator	Emergency Response Manager	Communications Coordinator	Public Information Officer	Airport Operations & Maintenance	Warning Coordinator	Re∞ur∞ Manager	Volunteer Organizations	Other Agencies
Direction & Control		P/S	P/S	P/S	s	S	.S	s	s	S	S	s
	S	S	S	S	S		Ø	S	S	S	S	s
Alert & Warning	S	S	S	S	S	S	S	\$		S	S	S
	S	S	S	S	S	S		Ġ	S	S	S	s
Protective Actions		P/S	P/S	P/S	S	S	S	S	S	s	, S	S
	S		S	s	S	s	S	S	s	s	S	S
[aw Enforcement:	S	S		S	s	s	s	S	s	\$	S	S
	S	S	S		s	s	s	S	S	S	S	S
Operations & Maintenance	s	S	s	s	s	s	s		S	\$	S	S
	S	S	s	S	s	s	s	s	s		S	s

P===Primary Responsibility S===Support Responsibility

P/S==One of these may be in charge, depending on the nature and scope of the emergency

NOTE: It is understood that not every airport will have the personnel resources to fill each of the positions described in Figure 5-1. It is important, however, that each of the functional areas is addressed, even if the same person must cover two or more. Detailed responsibilities should be included in the Hazard-specific Sections.

The following are examples of individuals/ organizations and related basic responsibilities to be considered for inclusion in the AEP. They are in no way all-inclusive.

a. Air carrier(s)/Aircraft operator(s).

- (1) Provide full details of aircraft related information, as appropriate, to include number of persons, fuel, and dangerous goods on board.
- **(2)** Coordinate transportation, accommodations, and other arrangements for uninjured passengers.
- (3) Coordinate utilization of their personnel and other supplies and equipment for all types of emergencies occurring at the airport.

b. Air Traffic Control.

- (1) Contact ARFF service regarding aircraft incidents/accidents and providing them information relevant to the emergency.
- (2) Coordinate the movement of nonsupport aircraft away from any area on the airport, which may be involved in an emergency.
- (3) Coordinate the movement of support aircraft to/from the emergency scene.
- (4) Perform duties in accordance with the air carrier's Aviation Disaster Family Assistance Act Plan

c. Airport Authority/Management

- (1) Assume responsibility for overall response and recovery operations, as appropriate.
- (2) Establish, promulgate, coordinate, maintain, and implement the AEP, to include assignment of responsibilities.
- (3) Coordinate the closing of the airport when necessary and initiate the dissemination of relevant safety-related information to the aviation users (NOTAMs).

d. Airport tenants.

- (1) Coordinate the use of their available equipment and supplies.
- (2) Coordinate the use of their manpower that may have knowledge of the airport, aircraft, and other technical knowledge.

e. Animal Care/ Control.

- (1) The movement of animals through the airport as cargo or pets accompanying their owners is fairly routine. Animal Care professionals should be included in AEP development and provide professional assistance during emergencies. This can be assigned to a governmental animal control department or contract with a non-profit or volunteer organization, such as the Humane Society or Society for the Prevention of Cruelty to Animals (SPCA).
- (2) Coordinate the services and assistance provided to the animal victims impacted by the emergency.

(3) Removal and care of wildlife involved in collision with aircraft.

f. Clergy.

Provide comfort to casualties and relatives. Clergy responsibilities should be made clear to avoid conflicts or duplication of effort from other providers of such services, such as the American Red Cross (ARC) or other arrangements made by the air carrier or the National Transportation Safety Board (NTSB) under the Aviation Disaster Family Assistance Act (ADFAA).

g. Coast Guard/Harbor Patrol.

- (1) Provide primary rescue and other support services in large bodies of water on or adjacent to the airport, as appropriate.
- (2) Coordinate their services with other mutual aid rescue services.

h Communications Services.

- (1) Identify and designate private and public service agencies, personnel, equipment, and facilities that can be used to augment the airport's communications capabilities.
- (2) Identity repair capability avail-able under emergency conditions.
- (3) Coordinate. and establish communications protocols, including frequency utilization, for use during emergency conditions.
- i. Coroner. Coordinate and provide body identification and other investigative activities.
- **j.** Emergency Management Agencies **(EMAs).**
- (1) Coordinate local EOP(s) with the AEP.
- (2) Consider role airport may have in support of state or regional defense or disaster response plans.

k. Emergency Medical Services

(1) Provide emergency medical services to the airport during emergency conditions to include triage, stabilization, first aid, medical care, and the

transportation of injured.

- (2) Coordinate plating, response, and recovery efforts with hospitals, fire and police departments, American Red Cross, Airport operator, etc.
- I. State or Local Environmental Agency. Provide response and recovery support for environmental and other hazardous material emergencies as defined by statute.
- **m** . Explosive Ordnance Disposal (EOD). Provide technical support for related situations.
- **n.** Federal Aviation Administration (FAA).
- (1) Certify and monitor the practices and procedures of the aviation industry.
- (2) Provide investigation services, as necessary.
 - o. Federal Bureau of Investigation (FBI).
- (1) Investigate any alleged or suspected activities that may involve federal criminal offenses (usually related to bomb threats, hijackings, hostages, and dignitaries).
- (2) Assumes command in response to certain hijack and other criminal situations.
- **p.** Aircraft Rescue and **Firefighting**. Manage and **direct firefighting** and rescue operations.
- q. Government Authorities. In order to avoid conflict and confusion between participants, the AEP should 'clearly define the obligation, controls and limitations placed on the airport authority by government agencies. Post-accident investigation, unlawful seizure of aircraft, bomb threats and bombings may fall into jurisdiction other than that of the airport authority.
- **r.** Hazardous Materials Response. Team. Provide response and recovery support for hazardous material emergencies as defined by statute.
- s. Health and Medical. Coordinate overall planning, response, and recovery efforts with hospitals, EMS, fire and police departments, American Red Cross, Airport operator, etc. to ensure practicality

and interopembility.

- t. Hospital(s). Coordinate the hospital disaster plan with the airport and community EOP.
- u. Mental Health Agencies. Provide coordinated program for survivors, relatives, eyewitnesses and emergency response personnel for dealing with the possible long-term effects of the emergency.
- v. Military/National Guard. Where a military facility is located on, or in the vicinity of an airport, integrate and coordinate personnel, supplies, and equipment capabilities into the AEP.

w. Mutual Aid Agencies.

- (1) Coordinate and integrate emergency services into the AEP through mutual 'aid agreements and Standard Operating Procedures (SOPs).
- (2) In some locations there are regulations or laws governing mutual aid activities and agreements.

x. National Weather Service.

- (1) Provide related technical support information in support of emergency response and recovery operations.
- (2) Assist with alert and warning processes, particularly with weather related emergencies.
- y. National **Transportation** Safety Board (NTSB). Conduct and control all accident investigations involving civil aircraft, or civil and military aircraft, within the United States, its territories and possessions.
- **z.** Police/Security. Manage law enforcement resources and direct traffic control arid law enforcement operations.
- **aa.** Post Office. Ensure the security of the mails, protect postal property, and restore service.
- bb. Public Information/Media. Gather, coordinate and release factual information.

cc. Public W orks/Engineering.

- (1) Manage public works resources and direct public works operations (e.g. mad maintenance, debris/trash removal, etc.).
- **(2)** Coordinate with private sector utilities (e.g. power and gas) on shutdown and service restoration.
- (3) Coordinate with private sector utilities and contractors for use of private sector resources in public works-related operations.
- dd. Red Cross. Coordinate and provide support services to victims, their families, and to emergency responders.
- ee. Search and Rescue. Coordinate and provide search and rescue services as needed, usually for off-airport aircraft emergencies.
- ff. All tasked individuals/organizations, including, but not limited to, those listed above:
- (1) Maintain current internal personnel notification rosters and SOPs to perform assigned tasks.
- (2) Analyze need and determine specific communications resource requirements.
- (3) Identify potential sources of additional equipment and supplies.
- **(4)** Provide for continuity of operations by taking action to:
- (a) Ensure that lines of succession for key management positions are established to ensure continuous leadership and authority for emergency actions and decisions in emergency conditions.
- **(b)** Protect records, facilities, and organizational equipment deemed essential for sustaining operational capabilities and conducting emergency operations.
- (c) Protect emergency response staff:
- $\underline{\mathbf{1}}$ Provide appropriate protective clothing and respiratory devices.

- **<u>2</u> Ensure** adequate training on equipment and procedures.
 - **3** Provide security.
- $\underline{\underline{\textbf{4}}}$ Rotate staff or schedule time off to prevent burnout.
- $\underline{\mathbf{5}}$ Make stress counseling available.
- **5-8** ADMINISTRATION AND LOGISTICS. This section of the AEP covers general support considerations to include:
- a. The availability of services and support for all types of emergencies.
 - b. General policies for managing resources.
 - c. Mutual aid agreement references.
- d. Authorities for and policies on, augmenting staff by reassignment of public employees and soliciting volunteers, along with general liability provisions.
- e. The airport's general policies on financial **record** keeping, reporting, and tracking resources.
- 5-9 PLAN DEVELOPMENT AND MAINTENANCE. This section of the AEP covers considerations to include:
- a. General. Personnel should periodically review AEP policies, procedures, and related information. Training that covers changes in policies, procedures, resource availability, etc. should be provided to ensure that all personnel stay familiar with current information.
- b. Schedule of Review. A schedule should be developed for reviewing each part of the AEP. A suggested schedule for some of the key elements is:
- (1) Telephone numbers contained in the AEP should be reviewed quarterly for accuracy by actually calling the individuals/ organizations listed. Changes should be noted, **particularly** in the procedures of the **individual(s)/organization(s)** tasked with making the calls during an emergency.

(2) Radio frequencies used in support of the AEP should be tested at least monthly. If these frequencies are used on a day-to-day basis, documentation to that effect should be provided.

- (3) Emergency resources should be inspected routinely. The frequency of inspection may vary depending on the type of equipment and supplies. Consideration should be given to placing these resources on the daily or periodic Airport Self-Inspection Program.
- **(4)** Personnel assignments to include **descriptions** of duties and responsibilities should be reviewed semi-annually.
- (5) Mutual aid agreements should be reviewed annually or as specified in the agreement.
- (6) Off-airport activity should be reviewed on an on-going basis. Maintain an open dialogue with off-airport agencies, such as utilities, public works departments, etc. to learn of activity that may affect the airport's emergency response effort, i.e.

road construction and closures, major utility work, etc.

- c. Training, Drills and Exercises. An important part of plan maintenance and validation comes from the overall training, drill, and exercise Program. As training, drills, and exercises are conducted, it is important that a functional critique/feedback program be in place. These "lessons learned" should be incorporated back into the planning process. A description of the airport's training, drill, and exercise program should be included in this portion of the plan. See Chapter 3 for more information.
- 5-10 AUTHORITIES AND REFERENCES. The Basic Plan should indicate the legal basis for emergency operations. Laws, statutes, ordinances, regulations, and formal agreements relevant to emergencies should be listed, along with any authority that has been delegated. Citing reference materials including local EOPs can be valuable for indicating what has influenced the writing of the AEP. References can also reduce the size of the AEP by directing the user to the full text of other documents.

CHAPTER 6. FUNCTIONAL SECTIONS

6-1 INTRODUCTION. Functional sections are generic in the sense that they are applicable to all emergencies, yet they are a critical part of the plan since they must enable the airport to cope with any unforeseen emergency.

In general, the organization of the sections parallels that of the Basic Plan. Specific sections can be developed to expand upon • but not to repeat • information contained in the Basic Plan.

Sections start to give the AEP functionality and direction. Generally speaking, sections should:

- **a.** Focus on operations, i.e. what the function is and who is responsible for carrying it out.
- **b.** Emphasize responsibilities, tasks, and operational actions that pertain to the function being performed.
- c. Cover, in general terms, the activities to be performed by anyone with a responsibility under the function.
- d. Identify actions that not only ensure effective response, but also aid in preparing for emergencies and disasters.
- e. Clearly define and describe the policies, processes, roles and responsibilities inherent in the various functions before (mitigation/preparedness), during (response), and after (recovery) any emergency period.
- **6-2 FUNCTIONS TO INCLUDE IN THE SECTIONS.** Airports vary in size, organizational configuration and governmental structure; each has its own emergency support capabilities. Therefore, there is no single listing of functional sections that can be prescribed for all airports. There are, however, certain core functions that warrant attention for emergencies at all airports. They are:
 - **a.** Direction and Control.
 - b. Communications.
 - c. Alert and Warning.

- **d.** Emergency Public Information.
- **e.** Protective Actions.
- f. Law Enforcement.
- **g.** Fire and Rescue.
- h. Health and Medical.
- 1. Resource Management.
- **j.** Airport Operations and Maintenance.

This list is not all-inclusive and each airport should assess its own needs, adding functions as deemed necessary by its planning team. Some typical additional sections include: damage assessment, search and rescue, mass care, and radiological protection. Once again, don't forget to review the results of your hazards analysis, as well as what is in the community EOP, and then develop functions accordingly.

Finally, it is understood that many airports don't have the personnel resources on staff to provide a designated individual to cover each of the functions. In many instances they may have to be covered by a few people, i.e. many of the functional areas may have to be combined or off-airport expertise may be used. The important thing is that the functions should be addressed in the plan. Further, the requirement to cover these functions will vary with the type of emergency. This can be addressed in the appropriate Hazard-specific Sections.

6-3 DESCRIPTION OF CORE FUNCTIONS.

The following attachments provide a brief description of each of the ten functional sections listed in 6-2 above, outlining the types of operational activity on which each section should focus. For consistency, they follow the same general format as the Basic Plan, i.e., they contain the same core elements:

- **a.** Purpose.
- b. Situation and Assumptions.
- c. Operations.

d. Organization and Assignment of Responsibilities.

e. Administration and Logistics.

- f. Plan Development and Maintenance.
- **g.** Reference and Authorities.

SECTION 1. DIRECTION AND CONTROL

6-l-l GENERAL. Direction and control is arguably the most critical of the emergency management functions. While response organizations (e.g., ARFF, law enforcement, EMS, public works, etc.) can, and usually do, perform admirably in emergency responses, problems often arise in the overall management of the situation, i.e., the merging of varying disciplines, organizations, and agencies not accustomed to working together. This is particularly true for aircraft emergencies where, in addition to the normal airport response organizations (ARFF, law enforcement, operations, public works, EMS, air carrier, etc.) and local off-airport emergency response agencies and media, there may well be a significant number of additional agencies (e.g., National Transportation Safety Board (NTSB), Federal Aviation Administration (FAA), Federal Bureau of Investigation (FBI), Environmental Protection Agency [EPA), etc.) arriving at the scene. Many of these responders do not normally work together, much less under emergency conditions, yet they all have defined It is, therefore, essential that all responsibilities. responders have an understanding of who is responsible for what during each type of emergency.

The information developed for this attachment should address direction and control operational activities in a general sense for all types of emergencies. It may be also used as a base upon which detailed direction and control information is developed for each hazard-specific Section.

As stated earlier, emergencies can vary in type and duration, from minutes-to days. Because of this, the and control function can change significantly, even during the course of a single emergency (e.g., it can change as it progresses from response activities to recovery activities). To be effective, an incident management system must be functional regardless of the type of incident or agencies involved. In fact, business management techniques can and should be applied to emergency incident management. The tasks that business managers perform are very similar to those performed by an Incident Commander (IC), (e.g., planning, directing, coordinating, communicating, delegating, and evaluating).

However, while these similarities do exist and some similar management principles can be applied there is one factor which makes emergency incident management more difficult - the element of danger. Decisions made can literally make the difference

between life or death. Incident command will be discussed in more detail later.

- **6-1-Z CONTENTS OF A DIRECTION AND CONTROL SECTION.** The content of a direction and control section includes the following:
- a. **Purpose.** This section provides overview information on the mechanisms an airport may use to direct and control response and recovery activities. It provides for those actions essential to saving lives, protecting property, and restoring the airport during and following emergency situations. Typically, the Purpose Section of this section should clearly define the individual or agency responsible for providing direction and control of responding emergency personnel during each phase of the emergency.
- b. Situation and Assumptions. This section describes the conditions that would initiate notification and mobilization of response personnel. It also describes the assumptions that are applicable to emergency response organizations such as resource shortfalls and the use of off-airport personnel or equipment or other known factors which may impact the airport's ability to respond to emergency situations.
- c. **Operations.** This section describes the direction and control relationships of tasked individuals/organizations, such as:
- (1) The overall command structure, specifying who will be in charge during each phase of emergency operations (e.g., hostage or weapons situation law enforcement in command; fire and hazardous materials situation ARFF/Fire in command; mass casualty with no fire or rescue involvement EMS in command, etc.).
- (2) The authorities and limitations of the key response personnel, including the Incident Commander.
- (3) The relationship between the Emergency Operations Center (EOC) and the field Incident Command Post (ICP), when used.
- (4) The provisions made to coordinate and communicate among all the jurisdictions and agencies (to include all Federal response agencies) that may be involved in the emergency response and recovery

activities.

- (5) It is important to establish the emergency response command structure, including resolving potential jurisdictional issues, before the emergency occurs so that, once the **response** effort begins, there is no confusion about who is in charge. This effort can be particularly complicated for airport operators because of the varying ways they are governed, owned, and operated, both legally and functionally (e.g., authority, city, county, state, etc.) and how they interface with other agencies on a day-to-day basis.
- (6) Typically, airports and communities use two types of direction and control systems centralized and on-scene:
- (a) Centralized. The typical form of centralized direction and control is the Emergency Operations Center (EOC). It is used to facilitate policy making, coordination, and overall direction of responding forces in large scale emergency situations. The two primary times the airport/community may use this form are:
- 1 When they have received advanced warning that a specific event may occur within a given time period (e.g., a hurricane will strike within 48 hours). In these situations, the EOC may be used to coordinate those actions which may be taken before a disaster strikes, such as emergency public information, closure of public facilities, evacuation of people and equipment (e.g., airplanes), establishment of shelters, etc., and
- **2** When they have experienced a large scale disaster such as an aircraft disaster. In these situations, the EOC can be used as a **coordinating** center to support the Incident Commander(s) in the field. The main roles of the EOC are:
- **a)** To provide a centralized fixed location, preferably away from vulnerable areas, yet reasonably accessible to those officials who will use it.

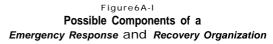
NOTE: Provisions for an alternate EOC should be considered in the planning processes.

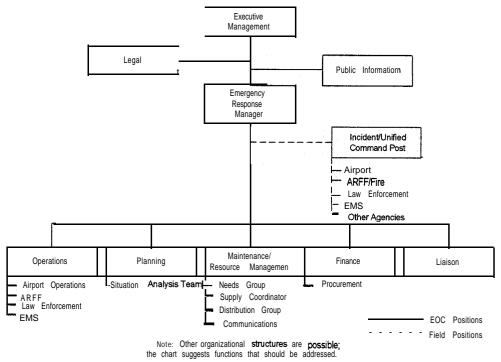
- **b)** To provide support to the on-scene Incident Commander(s).
- c) Act as the command center for localized emergencies such as bomb threats and unlawful seizure of aircraft.
- **d)** To be available for operations support 24-hours a day.

3 The EOC should:

- **a)** Be of sufficient size to support the size staff anticipated for the specific airport.
- **b)** Physically organized to provide maximum functionality, usually in three areas: operations room, communications center, and support area.
- c) Be appropriately equipped with usual furnishings (tables, chairs, lamps, etc.), displays, maps, communications equipment (redundant systems), projector and screen, fax, copier, status boards, whiteboards, and more. Name tags/position identifiers should also be provided.
- d) Be secure. Security personnel and systems keep unauthorized persons from entering the facility.
- **e)** Be adequately staffed. EOC staff should be carefully selected and trained. Functions to be covered include: operations, maintenance, emergency medical services, law enforcement, fire, public works/logistics, public information, resource management, finance, legal, and communications. Typically, the EOC is run by an Emergency Response Manager who is responsible for managing emergency support activities. Often, there is also a Liaison position which acts as an intermediary between the airport and other agencies, such as the air carriers or responding federal agencies. A sample Emergency Response and Recovery Organizational Chart may be found at Figure 6-1-1.

FIGURE 6-1-1. POSSIBLE COMPONENTS OF AN EMERGENCY RESPONSE AND RECOVERY ORGANIZATION





(b) On-Scene. The on-scene control system places the responsibility for the direction and control of all response actions with *an individual* who has responded to the scene. This role is important because in the field is potentially where lives and property are saved or lost.

The generally accepted national standard for on-scene control is the Incident Command System (ICS).

NOTE: Several laws and standards require the use of ICS to manage emergencies. For example:

- (1) The superflmd Amendments and Reauthorization Act of 1986 (SARA) requires organizations handling hazardous materials incidents to operate with an ICS.
- (2) The Occupational Safety and Health Administration (OSHA) rules and regulations state that an ICS shall be established by those employers for the incidents that will be under their control and shall be interfaced with the other organizations or agencies

who may respond to such an incident.

- (3) Non-OSHA states are required under EPA rules to use an ICS at hazardous materials incidents.
- (4) NFPA 1500 "Fire Department Occupational Safety and Health Program" requires all departments to establish written procedures for an incident command system.

Because ICS was designed to accommodate "all hazards," from car accidents to special events to earthquakes, its organizational stmcture develops in modular fashion from the top down, allowing a fluid, logical expansion as the incident becomes more complex. The basic concepts and principles of ICS include: common terminology, modular organization, integrated communications, unified command structure, consolidated action plan, manageable span of control, designated incident facilities, and comprehensive resource management. While there are several different ICS structures, varying in complexity and flexibility, most begin with the following

modules which are based on five functions that should be performed at every emergency incident (reference Figure 6-1-2):

- (a) Command.
- (b) Operations.
- (c) Planning.
- (d) Logistics.
- (e) Finance/Administration.

In a simple emergency, these tasks can be performed by a single individual. The command function is always established. If the event **grows** larger, the system grows with it, however span of control becomes a significant management issue. That will be discussed later.

Incident Command. ICS is scene specific. The function of the Incident Commander is to direct and control personnel and equipment, as well as to provide overall management at a specific incident site, including public safety and public information. The goal of the IC is to obtain the maximum productivity from all on-scene resources. The individual in this position may change depending on the scope, intensity, and duration of the incident.

In addition to coordination the IC normally handles three other responsibilities at minor incidents: 1) scene safety; 2) liaison with outside agencies; and 3) dissemination of information to the news media. An effective IC must recognize the need to delegate these functions when the incident gets to a point when he or she can no longer effectively perform them. This will be discussed later.

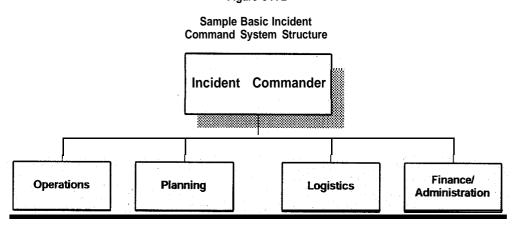
To be effective, an IC must be decisive, objective, pro-active, calm, a quick thinker, realistic, and flexible. This is no time for egos or turf issues • lives may be a stake. The IC must be qualified to make the decisions that need to be made under stressful conditions, and most importantly, realistic about his or her limitations.

The command function within ICS may be accomplished in two general ways. Single command is applicable when there is no overlap of jurisdictional boundaries or when a single IC is designated by the agency with overall management responsibility for the incident. Unified command is used if several organizations have major roles or if the incident is multi-jurisdictional in nature it is shared responsibility for overall incident management., Under the Unified Command process, all involved agencies contribute to the command process, including overall goals, planning tactical objectives, and maximizing the use of all available resources. An example of when Unified Command may be appropriate would be during an air carrier aircraft incident or accident.

- 2 **Operations.** The operations function 'is coordinated by the Operations Section Chief who reports directly to the IC. Operations is responsible for tactical operations at the incident site with actions performed in accordance with an incident-specific Incident Action Plan.
- **3** Planning. The planning function is coordinated by the Planning Section Chief who reports directly to the IC. Planning is responsible for coordinating the collection, evaluation dissemination, and use of information regarding the incident, as well as the status of resources used or needed at the incident site. The Planning Section is also responsible for the development of the Incident Action Plan. Depending on the size of the incident, this plan may be **oral** or written.
- **4** Logistics. The logistics function is coordinated by the Logistics Chief who reports directly to the IC. Logistics provides facilities, services, personnel, equipment, and material in support of the incident.
- finance/administration function is coordinated by the Finance Chief who reports directly to the IC. This function is responsible for tracking all incident costs evaluating the financial considerations of the incident, cost analysis, and assuring appropriate reimbursement processes are initiated.

FIGURE 6-1-2. SAMPLE BASIC INCIDENT COMMAND SYSTEM STRUCTURE

Figure 6-A-2



- ' Command Staff. During response operations and some recovery operations, the Incident Commander (IC) and staff are located at the Incident Command Post (ICP). As previously stated, some incidents may be of such magnitude or complexity that the IC cannot effectively perform all of his or her responsibilities and span of control becomes an issue. Span of control is defined as the number of subordinates one supervisor can manage effectively. Effective management becomes difficult if too many people are reporting to one supervisor. emergency response conditions, this number ranges from three to seven persons. Span of control issues must be anticipated and prepared for, especially in rapidly escalating situations, Therefore, when conditions warrant, the IC should delegate certain responsibilities to other qualified personnel (Figure 6-l-3):
- (1) A Safety Officer is responsible for monitoring and assessing the safety hazards and unsafe situations response personnel may be exposed to and develop measures to help ensure their safety. This individual should keep the IC informed of present 'problems as well as potential hazards and suggested solutions to minimize risks. The Safety Officer has the authority to bypass the chain of command when immediate correction to unsafe actions is required.

- (2) A **Public Information Officer (PIO)** is responsible for interfacing with the, media and other appropriate agencies. This includes developing and disseminating complete and accurate information applicable to the incident, including size, current situation, resources committed and other information pertinent to the situation at hand.
- (3) A **Liaison Officer** is responsible for serving as a point of contact with assisting or coordinating agencies. Responsibilities include coordinating the management of these agencies to avoid duplication of effort and to ensure that each agency is allowed to perform what it does best. The Liaison Officer often must act as a diplomat in cases where a responding agency may lack familiarity with ICS or with their involvement with the particular incident.
- (d) Command Post. On-scene response operations may be conducted from a mobile Incident Command Post (ICP). The ICP should be readily identifiable in both day and night conditions.
- (e) **Personnel Identification.** Key responders in the Incident Command System should be readily identifiable through some system such as reflective vests

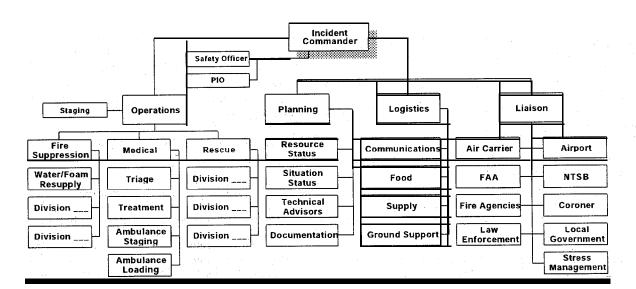


FIGURE 6-1-3. SAMPLE INCIDENT COMMAND SYSTEM AIRCRAFT ACCIDENT

6-1-3 ORGANIZATION A N D ASSIGN-MENT OF RESPONSIBILITIES. This section describes the specific direction and control responsibilities that are assigned to each tasked organization. The following are sample taskings and associated individuals:

a. Chief Executive/Airport Manager.

- (1) Activates the EOC (full or partial), when appropriate.
- (2) Directs all tasked organizations to ensure appropriate response in accordance with established plans and procedures.
 - (3) When notified, reports to the EOC.
- (4) Provides overall direction of response operations until an emergency scene is established and an IC assumes this responsibility (some rapidly developing situations occur where the IC may have already responded to the scene and established command).
- (5) As appropriate, designates an IC to direct tactical operations at the emergency scene.
- (6) As appropriate, designates an Emergency Response Manager to direct operations in the EOC.

- (7) As appropriate, directs implementation of protective actions (sheltering/evacuation) for airport employees, tenants, and visitors.
- (8) When appropriate, terminates response operations and releases **personnel.**

b. Aircraft Rescue and Fire Fighting (ARFF).

- (1) When notified of an emergency situation, responds to scene with personnel and equipment.
- (2) Identifies an IC and establishes an ICP, if appropriate; assigns appropriate personnel to IC staff.
 - (3) 'Performs IC duties at scene, if appropriate.
- (4) Keeps EOC informed of scene status, if appropriate.
- (5) Manages fire/rescue resources, directs fire operations, conducts necessary rescue operations, and determines the need to evacuate the area in the vicinity of the scene.
- (6) Alerts emergency response personnel of the presence of hazards at the scene, (e.g., fire, hazardous materials, etc.).

c. Law Enforcement.

- (1) When notified of an emergency situation, responds to scene, or other location, with personnel and equipment, as appropriate.
- (2) Identities an **IC** and establishes an ICP, if appropriate; assigns appropriate personnel to IC staff.
 - (3) Performs IC duties at scene, if appropriate.
- (4) Keeps EOC informed of scene status, if appropriate.
- (5) Manages law enforcement resources and directs law enforcement operations, such as:
 - (a) Traffic control.
 - **(b)** Evacuation assistance.
 - (c) Scene access control.
 - (d) Scene security.
 - (e) Damage assessment.
- **(f)** Refer to Section 6 for additional responsibilities.

d. Public Works.

- (1) When notified of an emergency situation, sends response teams/personnel, equipment, and vehicles to the scene, staging area, or other location, when appropriate or requested.
- (2) Identifies an IC and establishes an ICP, if appropriate; assigns appropriate personnel to IC staff.
 - (3) Performs IC duties at scene, if appropriate.
- (4) Keeps EOC informed of scene status, if appropriate.
- (5) Manages public works resources and directs public works operations, such as:
 - (a) Performing debris removal.
- (b) Conducting damage assessment activities

- (c) Providing emergency generators, fuel, lighting, sanitation to emergency responders.
- (d) Coordinates with utility companies, as necessary.

e. Public Information Officer.

- (1) When notified, reports to EOC.
- (2) Performs interface with media regarding the emergency.
- (3) Refer to Section 4 for additional responsibilities.

f. Health and Medical Coordinator.

- (1) When notified, sends a representative to the EOC.
- (2) Coordinates health and medical activities of all response organizations involved in providing medical assistance at the **scene**.
- (3) Refer to Section 8 for additional responsibilities.

g. Communications Coordinator.

- (1) Supports communications operations in the EOC.
- (2) Refer to Section 2 for additional responsibilities.

h. Animal Care and Control Agency.

- (1) When requested sends a representative to the scene and/or EOC.
- (2) Manages efforts to meet animal services needs, such as:
- (a) Rescue and capture of animals that have escaped confinement.
- (b) Cam of injured, sick, and stray; and disposal of dead animals.
- (c) Activates emergency response teams, as **needed**.
- (d) Prepares a resource list. of organizations that are responsible for providing

supplies needed to treat and care for injured and sick animals during large-scale emergencies and disasters.

i. Other Organizations.

(1) The organization and assignment section should list all other agencies that have not been included above and briefly describe the services they will provide (e.g., coroner's office, air carriers, other airport tenants, etc.).

6-1-4 Administration and Logistics.

This section describes the support requirements of the direction and control function.

- a. Administration. This section specifies the records that are required to be maintained and describes the frequency and types of reports that are necessary. Examples include:
- (1) Reports relating to specific agencies' expenditures and obligations **during** emergency conditions.

- (2) Requirement to submit reports to the various levels of emergency management agencies (very often, reimbursement of expenditures is dependent upon report submission).
- b. Logistics. This section addresses the support arrangements (food, water, emergency power, fuel, equipment, supplies, etc.) of the organizations performing the direction and control functions. Letters of Agreement, if developed, should be referenced.
- 6-1-5 Plan Development and Maintenance. This section describes who is responsible for coordinating the revision of the Direction and Control Section, including attachments and SOPS.
- **6-1-6 AUTHORITIES AND REFERENCES.** All authorities and references should be listed as appropriate.

SECTION 2. COMMUNICATIONS

- 6-2-1 GENERAL. This function addresses the processes used to reliably and efficiently move information from one point to another during emergency situations. The entire communication system and process is discussed in detail.
- 6-2-2 CONTENTS OF A COMMUNICATIONS SECTION. The content of an communications section includes the following:
- a. Purpose. A communications section provides information on establishing, using, maintaining, augmenting, and providing redundancy for all types of communications devices needed during emergency response operations.
- b. Situation and Assumptions. The Situation portion of this section identities some broad considerations that apply to 'the kinds of emergency conditions that could occur and would require the activation of emergency communications systems to support the airport's response to the situation, It must be remembered that the airport presents some unique operating conditions relative to communications, e.g., potentially high noise levels, air traffic control communications systems and requirements, security, etc.

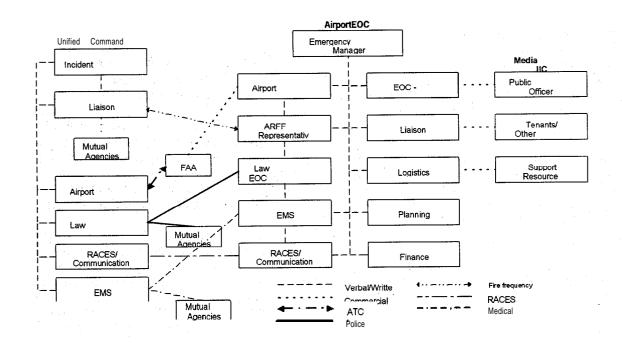
This section also describes the assumptions that are applicable to the communications system(s) the airport will use during an emergency. Typical assumptions may address:

(1) Recognition of the fact that large-scale emergency operations usually require a communications capability beyond the normal capacities of the equipment of a typical airport. Therefore, the type required and sources (from the private and public sector) for the additional equipment needed to support response and recovery operations should be identified as a fundamental activity associated with developing this section of the plan.

- (2) Depending on the type of emergency, communications support from local emergency response agencies may or may not be available, depending on their commitments elsewhere.
- (3) Organizations such as Radio Amateur Civil Emergency Service (RACES), Radio Emergency Associated Communications Teams (REACT), local industry, taxi and transit companies, may be available for support.
- (4) Designation of specific response organizations to maintain operational control of their own communications system(s) while coordinating with the Incident Command Post or Emergency Operations Center during emergency response and recovery operations.
- C. Operations. This section should describe the methods used to communicate between the EOC, field forces at a specific incident scene (operating under an Incident Command System or other direction and control system), control centers of emergency response organizations (e.g., fire, police, EMS dispatch centers), radio/TV stations, hospitals, amateur communications networks, adjacent communities, military installations, and other private and public sector organizations. It should address provisions for redundancy (sometimes termed primary and backup systems) and integration in all areas of information flow, including equipment and the people that will operate that equipment. To facilitate the development of the overall airport communications system for emergency response and recovery operations, it may be helpful to develop a schematic 'depicting information flow. A sample schematic may be found at Figure 6-2-1.

Integrated **communications** involves managing communications at an incident **through** use of a common communications plan. Standard Operating Procedures should be established using common terminology and clear *text* (when working with varying agencies, unfamiliar words or terminology may cause problems). Effective two-way communication is essential to effective incident management. Not only is it important that messages are received, it is equally important that they are acknowledged properly.

FÍGURE 6-2-1. POSSIBLE COMPONENTS OF AN INFORMATION FLOW CHART AIRPORT ACCIDENT



d. Organization and Assignment of Responsibilities. This section describes the specific communications responsibilities that are assigned to tasked organizations.

(1) Airport Manager/Chief Executive.

- (a) Designates a Communications Coordinator to report to the EOC, when required.
- **(b)** Ensures adequate and appropriate communications systems are in place.

(2) Communications Coordinator.

- (a) Manages the communications section in the EOC and supervises all personnel assigned to it.
- **(b)** Supports media center communications, as needed.
- (c) Ensures communications section in the EOC has the capability to sustain operations around the clock.

(d) Maintains a chronological event log.

- (3) All Tasked Organizations. This includes all emergency response organizations (ARFF, law enforcement, Public Works, Public Information, Health and Medical, off-airport support, etc.). During emergency response operations, all organizations should:
- (a) Maintain their existing equipment and follow established procedures for communicating with their organization personnel performing field operations. All organizations should keep the EOC informed of their respective operations at all times.
- **(b)** Ensure redundant communications capability.
- **(c)** Clean, repair, and perform maintenance on all equipment before returning to normal operations or storage.
- e. Administration and Logistics. This section addresses the support requirements of the

communications function.

- (1) Administration. This section addresses the administrative action associated with satisfying the tasking in this section. Specific areas to be addressed include:
- (a) Record and report preparation and retention.
- **(b)** Accounting and reimbursement procedures.
- (c) Reference to the telephone lists and radio frequencies in the SOPs/checklists that should be followed to notify emergency personnel during emergency situations.
- (2) Logistics. This section addresses general support requirements. Specific areas to be addressed include: communications agreements with private organizations (e.g., RACES, REACT, etc.), mutual aid agreements with surrounding communities, and provisions to have damaged communications equipment repaired or replaced.
- f. Plan Development and Maintenance. This section should identify who is responsible for coordinating the development and revision of the airport's Communications Section, keeping its attachments current, and ensuring that SOPs/checklists and other necessary documents are developed and kept current.
- **g.** Authorities and References. Authorities and references should be cited as appropriate.

SECTION 3. ALERT AND WARNING

- **6-3-1 GENERAL.** This function addresses the processes used to notify and warn emergency response agencies, airport employees and tenants, and the general public of potential or actual emergency situations. This alert and warning process is essential for it ensures the timely response of emergency forces as well as ensuring that the public has adequate time to take appropriate protective actions to avoid death, injury, and/or damage to property.
- **6-3-2 CONTENTS OF AN ALERT AND WARNING SECTION.** The content of an Alert and Warning Section includes the following:
- **a. Purpose.** This section provides information which identifies the methods and sequences to be utilized in notifying all appropriate personnel of an emergency situation **on**, or in the vicinity of, the airport. It describes the various alert and warning systems and equipment available at the airport, how and under what conditions they are to be used, and who is responsible for them, to include activation/deactivation and testing/maintenance.
- b. Situation and Assumptions. This section describes the general kinds of conditions that could warrant the activation of an alert and warning system. It describes the special conditions present at the airport which may impact system design or use, i.e., emergency access doors leading to the Air Operations Area or other security area. It may also describe those situations where coordination with off-airport agencies is necessary and beneficial.

Some of the typical assumptions which may be made:

- (1) Special needs groups such as people with sight or hearing, mobility impairments or unaccompanied children will require special attention to ensure a totally functional alert and warning system is established.
- (2) Some people may ignore or not understand the alert and warning signal.
- (3) Fire, **police**, and other airport personnel may be called upon to assist in the alert and warning process.
- (4) For some types of emergencies, the local emergency management agency may activate the Emergency Alert System (EAS) to notify the public of

the situation.

- (5) Where available, National Oceanic and Atmospheric Administration (NOAA) Weather Radio Stations will disseminate watches and warnings issued be the National Weather Service (NWS); NOAA tone alert radios are automatically activated when such watches are issued.
- c. **Operations.** This section provides general information on the process of how the alert and warning system is to be used at the airport. This section:
- (1) Identifies the personnel and organizations to be notified of the various emergencies, to include emergency response agencies, the public, and key airport personnel.
- (2) Describes who is responsible and methods to be used for the notification of those personnel and organizations.
- (3) Identifies types of alert and warning systems (crash phone, fire alarms, sirens, pagers, radios, route alerting, etc.) to be used on the airport for each type of emergency, e.g., aircraft emergency crash phone; structural fire fire alarm, etc., specifies the location of these systems, and the area covered.
- (4) Describes procedures to be used for special locations, such as high noise areas, aircraft parked at the gate; etc.
- (5) Describes procedures to be used to warn special needs populations such as the, hearing-impaired and non-English speaking individuals.
- (6) Describes any prescripted public address system announcements which have been developed and included in incident-specific plans and procedures.
- (7) Describes procedures to be used in the event of public address system or alert and warning system failure.
- (8) Clearly defines the meaning of all warning signals.
- (9) Describes the coordination processes when there is a need to involve neighboring off-airport jurisdictions, to include the local emergency response

agency. The role of the Emergency Alert System (EAS) should be discussed.

- (10) Describes the arrangements that have been made with the emergency management organizations in nearby jurisdictions, industrial complexes, and military facilities (on or adjacent to the airport) that use, store, produce, or transport hazardous materials to immediately alert the airport (who, how, when, and where) if an emergency situation involving hazardous materials occurs.
- d. Organization and Assignment of Responsibilities. Once an emergency situation is identified, quick notification and exchange of information is crucial. This section describes specific responsibilities that are assigned to tasked organizations for each type of emergency.

(1) Chief Executive/Airport Manager.

- (a) Specifies who has responsibility and authority to initiate manually activated alert and warning systems;
- **(b)** Ensures preparation of contingency plans to provide alert and warning if the established system fails to work.
- **(2) All Tasked Organizations.** Upon receipt of an alert signal or warning message, initiate internal notification procedures to:
- (a) Notify employees and other volunteers assigned to emergency response duties of the emergency situation.
 - (b) As appropriate to the situation:
- **1** Suspend or curtail normal business activities.
- **2** Recall essential off-duty employees.
- **3** Send noncritical personnel home.
- $\underline{\textbf{4}}$ Evacuate the organization's facilities.

- (c) If appropriate, augment the alert and warning effort through the use of vehicles or personnel equipped with public address systems to deliver the alert signal and warning message.
- e. Administration and Logistics. This section addresses the administrative and general support requirements associated with the alert and warning function.
- (1) **Administration.** Areas to be addressed include:
- (a) Reference or attach as an appendix the SOP or checklist that contains the contact information (telephone number, radio frequency, etc.) of the emergency or other personnel to be notified of an emergency situation.
- **(b)** Attach as an appendix charts or maps that depict the alert and warning system and the area they cover.
- (2) Logistics. Requirements to be covered include:
- (a) Policies and procedures to test and maintain alert and warning equipment.
- **(b)** Policies and procedures to repair or replace damaged equipment.
- (c) Policies and procedures to cover adequate alert and warning equipment should multiple incidents develop.
- (d) Agreements for use of **private** services agencies, personnel, equipment, and facilities to augment the airport's alert and warning capabilities.
- f. Plan Development and Maintenance. This section should identity who is responsible for coordinating revisions to any of the alert and warning plans, procedures, SOPs, and checklists, as well as developing new implementing documents, as necessary.
- **g.** Authorities and Reference. Authorities and references should be cited as necessary.

SECTION 4. EMERGENCY PUBLIC INFORMATION

6-4-l **GENERAL.** This function addresses the activities associated with providing timely, accurate, and useful information and instructions to the public For most throughout the emergency period. emergencies, the Emergency Public Information (EPI) organization will initially focus on the dissemination of information to the public at risk on the airport. However, the EPI organization must also deal with the wider public's interest and desire to help or seek information about loved ones. Good, timely information can help prevent overloading an airport's communications network. transportation infrastructure, and its staff.

Most experts will agree that an ineffective public information program during an emergency is a very serious problem. It can raise the anxiety level in the community-at-large, feed inaccurate impressions of the **situation**, and significantly exaggerate the potential for harm.

For the airport EPI organization to develop an effective program, it must develop good working relations with all the local media. These relations can carry over from strictly emergency response matters (when the airport has something to say and needs the media to relay it) into news coverage (when the media have to relay their stories and need the airport to say or show something). For most airports, media relations becomes a natural extension of the emergency public information function-all part of a Public Information Officer's job.

Local media, like the EPI organization, remain after the emergency. They share concern for the airport and surrounding communities' welfare, and they answer to the communities for the service they provide. Local media, being sensitive to the communities' needs, can work with the PIO to focus on strict EPI concerns and deal with the news aspects as time and circumstance permit. Media relations can become a real challenge during major emergency events when the demand for news information overwhelms the EPI organization's ability to perform its basic mission: to provide timely, accurate, and useful information to the public. It is beneficial during such times to have pre-established strong professional relations with the local media, especially with the potential convergence of national media and "local" media from outside the immediate-area. If the locals know they will get their information based on their previous experiences with the EPI organization, they may be less inclined to be a

hindrance during the height of the event.

- **6-4-2 CONTENTS OF AN EMERGENCY PUBLIC INFORMATION SECTION. The** content of an Emergency Public Information Section includes the following:
- a. **Purpose.** This EPI section describes the means, organization, and processes by which an airport may provide timely, accurate, and useful information and instructions throughout an emergency.
- b. Situation and Assumptions. This section describes the overall planning environment for the EPI function and shows what uncertainties have been treated as fact. Items to be considered during the planning process include:

(1) Situation.

- (a) General. A situation section should list the hazards that face the airport (i.e., the results of the hazards analysis). It should note those situations which would require activation of the EPI response organization. If a given hazard, e.g., aircraft accident, requires special planning provisions, the section should mention that a Hazard-specific Section has been developed to address that particular issue. Further, because of the unique service area of the airport (i.e., potentially world-wide for many facilities), consideration must be given to media needs at point of origin or destination airports.
- (b) Means of dissemination. A situation section should give relevant facts about the airport's ability to transmit emergency public information. Relevant facts may include:
- getion should describe the principal means by which EPI will be disseminated (television, radio, newspaper, Internet, etc.). A listing of the specific means should be attached to the section, along with contact information, hours of operation for radio / TV / cable stations, circulation (morning / evening, daily / weekly) of newspapers, and languages covered. The section should also address alternative methods (vehicle-mounted public address, door-to-door).
- **2** Coverage. This section should describe the area covered by broadcast stations and give at least a rough idea of audience access to cable

and newspapers (e.g., number of subscribers).

- **3** Vulnerability. This section should note how the means for disseminating EPI could be negatively impacted by hazards that face the airport. (This section can show maps). For example, hurricanes, tornadoes, and earthquakes can render a telephone system (land line and cellular) inoperative. Further, for major media events, one likely event which must be planned for is that the cellular telephone system may be rendered unreliable due to the extremely high volume of usage generated by the media and their equipment.
- (c) Audience. This section should also give relevant facts about the audience for emergency public information at your airport. Relevant facts include:
- **1** Special needs groups. The section should list the airport's non-English speaking population, both transient and employee, in excess of some planning threshold (e.g., five percent) and note the foreign language media or translation source that could be used to communicate with these groups. Consideration must also be given to people with sight or hearing, or mobility impairment, as well as the fact that many people at the airport may be unfamiliar with the surroundings and its hazards.
- 2 **Preparedness.** This section may note whether there is an ongoing preparedness program including items such as printed materials or training for new employees.

(2) Assumptions.

- (a) Media. Relevant assumptions about the media include :
- **1** Local cooperation. Local media will cooperate in placing the airport and communities' need for emergency public information ahead of the need for news coverage, at least in the initial response phase of the emergency.
- 2 External media interest. Some events, or even forecast events, can bring a significant number of media personnel and equipment to an airport. This will create heavy demands on the EPI organization, requiring augmentation. External media will be interested less in details than in spectacle and "human interest" stories of universal appeal and quick impact.

(b) Audience. Relevant assumptions about the audience may include:

- <u>1</u> Preparedness. This section may note what level of preparedness is assumed. For example, emergency situations in the terminal building may assume a fairly low level of overall preparedness because of the transient nature of the population.
- 2 **Demand for information.** People will want more information and will call to get it if possible.
- c. Operations. The Operations section provides general information on how emergency public information is to be disseminated to the public, as well as the transients and employee work force on the airport. It describes policies, protocols, and a sequence of activities.
- (1) **General.** This section should address who has the authority to activate the EPI organization, how the organization is **notified**, and where they should report (e.g., EOC, Public Information office, etc.). It should set forth priorities for EPI activities: production and dissemination of information, response to public inquiry, rumor control, and media relations. It should set forth the airport's policy to have a single point for EPI center to focus on specific emergency-related information as it relates to the airport's response **activities** (not the response activities of other organizations), and to provide positive and reassuring information when possible.

(2) Phased Activity.

- (a) Increased Readiness (e.g., Forecast Event).
- **1** Actions. Following are actions that can be taken with more than a day's notice. This is not all-inclusive.
- **a)** Coordinate with the Airport Manager/Chief Executive.
- **b)** Establish and maintain contact with the media. Provide preparedness information and any instructions, as cleared by the Airport Manager/Chief Executive.
- c) As necessary, arrange for accelerated printing of any required public information material (e.g., hurricane evacuation

procedures).

- **d)** Monitor the media.
- **e)** Augment public inquiry and/or media relations staffs, if needed. Set up any additional facilities for EPI operations (e.g., separate telephone bank or media center).
- **2** Message Content. The following is a suggested general content for preimpact messages. These will depend on the amount of time available for action and on the particular hazard. Hazard-specific information and instructions should be appended to the section.
 - **a)** Hazard.
- **b)** Estimated area and time of impact.
- c) Property protection measures (e.g., sandbagging, relocating aircraft, etc.).
- **d)** Recommended content of disaster supply kits for surviving 72 hours, if appropriate.
- **e)** Evacuation instructions (coordinate with the local Emergency Management Agency).
- $\begin{tabular}{ll} \textbf{f)} & Other & do's & and & \textbf{don'ts} \\ relevant to the emergency. \end{tabular}$
- **g)** Telephone numbers for specific kinds of inquiry.

(b) Limited Warning Available.

- **1** Actions. The follosving are EPI actions that may be taken with limited notice. The list is not all-inclusive.
- **a)** Coordinate with the Airport Manager/Chief Executive to determine what protective action will, be taken (e.g., evacuation, inplace shelter, etc.).
- **b)** Complete "standby" EPI instructions with particulars of the event. Coordinate with appropriate EOC staff member to ensure warning system is activated as necessary and ensure any

appropriate EPI is distributed.

- **c)** Monitor the media.
- 2 **Message Content. The** following is suggested general content for **pre-event** messages with limited warning available. Again, these will depend on the particular hazard. Hazard-specific information should be appended to the section.
- **a)** Type of hazard and risk posed to people and property.
- **b)** Area at risk and predicted time of impact.
- c) Protective action instructions. Detail the information to be disseminated to the permanent and transient population for the emergency at hand, i.e., what are they to do, how are they to do it, etc. If the protective action is such that it may impact the surrounding communities, e.g., evacuation, be sure it is coordinated with the appropriate community emergency management agency staff.
- **d)** Reference any visual information at-hand (e.g., pre-printed **instructions** that may have been distributed to the airport tenants and employees.

(c) After impact.

- **1** Actions. The following EPI actions may be taken following the initial impact of an emergency. The list is not all-inclusive and should be tailored to the specific airport.
- a) Establish and maintain contact with the media. 'Provide relevant inform-ation and instructions as approved by the Airport Manager/Chief Executive.
- **b)** Monitor media reports and telephone inquiries for accuracy and respond as appropriate to correct rumors.
- c) Augment public inquiry and/or media relations staffs, if needed.
- **d)** Compile chronology of events.

2 Message Content.

a) Provide current situation

assessment.

b) Provide current airport response actions.

c) In coordination with the local **community** emergency management agency, provide information as needed on:

(i) Where/how to get

help.

(ii) Health hazards in-

formation.

(iii) Key telephone num-

bers.

(iv) Current response

actions.

NOTE: Consideration should be given to the development of a generic Family Plan for use by airport employees. Situations such as a hurricane, tornado, blizzard, or other emergency which affect the airport and surrounding communities, may leave employees, who are often expected to work extended hours under such conditions, concerned about the safety and overall welfare of their families and loved ones. This concern may negatively impact their ability to function and. otherwise carry out their responsibilities. The completion of a Family Plan, which provides for pre-planning family action in the event of an emergency, e.g., a predesignated contact number or location for meeting in the event of an evacuation or separation, may ease the overall concern of the employee. Organizations such as the American Red Cross have sample Family Plans available which may serve as a guide to the development of an airportspecific plan by EPI personnel.

(3) Internal Coordination. The Operations section should address how the airport will coordinate EPI efforts in order to "speak with one voice." The section should provide for one PIO and alternate, designated by the Airport Manager/Chief Executive, for dissemination of official emergency public information and instructions through the media to the public. It should provide for management of information from one location. It should provide for coordination between individual agencies' public information officers and the designated airport PIO. It

should also provide for the coordination between public information representatives at the scene of the event and the central EPI location. Coordination must also include procedures for verifying and authenticating information and for approval before the release of information.

The Operations section should also address mechanisms for dealing with convergence of the media to the airport resulting from large-scale events. (This could be done with a separate section). Provision should be made for transferring some of the media relations responsibilities to pre-designated meeting rooms in the terminal or vehicle gate, use a of trained local media person to help with out-of-town media, or obtaining assistance from another agency's public relations staff. Provision should be made for providing credentials to media representatives and for coordinating with law enforcement to allow media access to the scene (if it is safe to do so). The section should make clear who decides to implement such provisions.

(4) Interjurisdictional Coordination.

(a) Airport-Local. The Operations section should address coordination between the airport and the local government or other agencies which rely on the same media resources. It should also address those situations which involve airport tenants such as the air carriers and the processes for handling the media where the tenant is a major player. It is important to remember that, even if the airport is not the location of an event such as an aircraft accident, if it happens to be the point of origin or destination for such an event, there will be significant media and public inquiry.

- (b) Airport-Local-State. State laws and plans often define the framework for local and state coordination on emergency public information The airport should consider how they will coordinate their EPI efforts with local and state emergency management officials for those events which may involve the state, such as a disaster that involves a declaration of emergency by the Governor.
- (c) Airport-Local-State-Federal. There may be situations where the Federal government becomes involved, such as major aircraft accidents or a disaster that threatens to overwhelm a state's capabilities to respond and support the local efforts. In some cases, the Federal Response Plan (FRP) may be activated which calls for maximum coordination of agencies' information releases through a Joint Information Center (JIC) to ensure consistency and

accuracy. The JIC is a single location where the media have access to information and the public affairs personnel of various agencies can consult with one another. If a single JIC is not a viable option, public affairs personnel, decision-makers, and news centers may be connected by electronic mail, fax, and telephone in an electronic "Joint Information System" (JIS). In a JIS, releases of information should be coordinated to ensure that everyone is using the most recent and accurate data.

d. **Organization and Assignment of Responsibility.** An organizational chart should be developed depicting the EPI organization. Consideration should be given to building the organization around the functional areas of information gathering and production, monitoring and rumor control, public inquiries, and media relations (reference Figure 6-4-1). It is not always necessary to fill each box with a different person; it is **necessary** to be able to staff each box as the situation dictates. The following types of tasking may be assigned in support of the **overall** EPI function:

(1) Airport Manager/Chief Executive.

- (a) Serves as the primary spokesperson before media, or delegates function to PIO.
- **(b)** Gives final approval to release of emergency instructions and information, or delegates function to PIO.
- (c) In cases where Incident Command has been established, provides policy guidance on the transfer of authority to release information from the Incident Command Post to the Emergency Operations Center.
- (d) Designates location for media briefings.
- (e) Approves implementation of any special provisions for media convergence.

(2) Public Information Officer (PIO).

- (a) Manages all aspects of EPI on behalf of the Airport Manager/Chief Executive.
- **(b)** Assumes EPI functions delegated by the Airport Manager/Chief Executive.
- (c) Ensures timely preparation of EPI materials and their dissemination.

- (d) Ensures timely and appropriate coordination with off-airport emergency public information personnel.
- (e) Briefs public affairs officers who go to the incident site.
- **(f)** Schedules news conferences, interviews, and other media access.
 - **(g)** Supervises the media center.
- **(b)** Assigns personnel to monitor all media reports for accuracy.
 - (i) Coordinates mmor control activity.
- (j) Maintains a chronological record of emergency events.

(3) Local Media Organizations.

- (a) Store/maintain advance emergency information packets for release at the airport PIO's request.
- **(b)** Verify field reports of the emergency's development with the PIO.
- (c) Cooperate in any public education efforts (e.g., the airport's triennial emergency exercise).

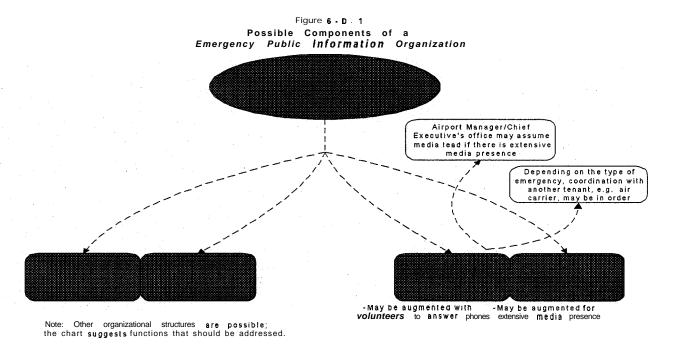
(4) Voluntary Organizations.

- (a) Provide support to public inquiry telephone lines, as requested by the PIO.
- **(b)** Provide support in disseminating printed EPI material, as requested by PIO.

(5) All Tasked Organizations.

- (a) Provide information as requested by the PIO.
- **(b)** Clear all emergency-related news releases with the airport's PIO.
- (c) Provide public affairs officers to support EPI activities, as requested by the PIO.
 - (d) Refer media inquiries to the PIO.

FIGURE 6-4-1. POSSIBLE COMPONENTS OF AN EMERGENCY PUBLIC INFORMATION ORGANIZATION



e. Administration and Logistics.

The administration and logistics section addresses the administrative and general support requirements for the EPI function.

(1) Administration. This section should address reporting and information flow for the EPI function, or reference the relevant SOPs and/or checklists. Common reports from EPI would include press coverage summaries and/or clips, public reaction and concerns (based on telephone inquiries or even post-disaster critiques), and a final chronology of events.

(2) Logistics.

- (a) **Staffing.** The section should indicate how a core EPI staff is to be augmented to handle a surge in the public/media's demands for information.
- **(b) Facilities and Equipment. This** section should describe what facilities are to be used for EPI and where they are located. The

basic facility is the EOC and a nearby conference room or media center. Other possible facilities include a telephone bank and a separate, larger media center. This section describes how additional facilities will be obtained, and who obtains them. This effort should be coordinated with the air carriers and other appropriate airport tenants to avoid possible duplication of effort and other potential conflicts. SOPs/checklists should be developed for setting up these facilities and referenced here. This section should also describe any special equipment needs for the EPI facilities and how they will be met.

- (c) Suppliers/Agreements. This section should reference agreements with suppliers (e.g., printers). An attachment to the section should list day and night points of contact for such suppliers, as well as for media outlets.
- f. Plan Development and Maintenance. This section should define who is responsible for coordinating development and revision of the airport's EPI section, keeping its attachments current, and ensuring that SOPs and/or Checklists, and other supporting documents are developed and kept current.

g. Authorities and References. Authorities and references may include the local government's emergency management statute or ordinance. FEMA and the American Red Cross have produced several emergency and disaster-related documents /brochures. These could be referenced if used.

SECTION 5. PROTECTIVE ACTIONS

- 6-5-1 **GENERAL.** This **function** addresses those actions to be taken to protect the health and safety of the transient and employee population at the airport.
- **6-5-2 CONTENTS OF A PROTECTIVE ACTIONS SECTION.** The content of a Protective Actions Section includes the following:
- Purpose. Protective actions for the public are emergency measures intended to eliminate and/or reduce exposure to the consequences of an emergency or disaster through either: 1) leaving the area (evacuation), or 2) going indoors (sheltering). This section describes the provisions that have been made to address those actions, i.e., ensuring the safe and orderly evacuation of people (and equipment, if appropriate - e.g., aircraft) threatened by the hazards the airport faces, or if time does not permit evacuation, then providing for sheltering-in-place. This section should cover those events which may require a protective action involving the entire airport (hurricane or extensive hazardous materials) to those involving more local events (terminal building evacuation-fire/bomb incident or a more localized hazardous materials).
- Situation and Assumptions. The airport, just like its surrounding communities, can face situations that may require some type of protective action for its permanent and transient population. This section identifies those emergency conditions that could occur at the airport that may require implementation of these protective actions. It identifies areas subject to potential protective actions (areas prone to flood, seismic activity, wildfire, etc.; areas on or near the airport that use, store, produce, or transport hazardous materials; etc.). Any site-specific evacuation plans and maps should be appended to the section. (e.g., terminal building evacuation plans). This section should also address provisions for the identification of population groups requiring special assistance. (e.g., people with sight or hearing, or mobility impairment).

This section should address the need for coordination with evacuation plans of the communities immediately adjacent to the airport. This should be accomplished **to** ensure compatibility with the airport's plan and to ensure the airport is adequately addressed in the communities' overall evacuation processes as contained in their Emergency Operations Plan (EOP).

Assumptions should focus on probable operational situations under emergency conditions, cover unanticipated contingencies, and establish the parameters within which the planning for evacuation will take place. Typical assumptions include:

- (1) The section focuses on hazards that provide **sufficient** warning time to implement a planned protective action for people identified as being at risk.
- (2) The response organizations are well aware of all resources **required** to implement protective actions, including the availability of transportation, communications equipment, and personnel.
- (3) Transient personnel may need assistance and guidance in carrying out a protective action.
- (4) Some people will ignore the protective action recommendation, regardless of the threat.
- (5) For some seasonal hazards, such as a hurricane, standard designated evacuation routes will be used to evacuate people once they are off airport property.
- (6) Evacuation of people at risk for emergency situations that occur with little or no warning may be implemented on an ad hoc basis. The individual responsible for implementing it should be the Incident Commander at the scene of the emergency. Evacuation instructions should be based on known or assumed health risks associated with the hazard and a determination made that sheltering is not a viable alternative.
- (7) There will be some situations where it will be more prudent to shelter people rather than evacuate.
- c. **Operations.** There are several factors which must be considered when **planning** for protective actions. **Among these** are the characteristics of the hazard or threat itself. The magnitude, intensity, speed of onset, duration, and impact on the airport **are** all significant elements to be considered. Such factors will determine the type of protective action (shelter or evacuate), whom will be impacted, how they will be notified, duration of impact, and in the case of evacuation, destination.

- (1) General. A description of the decision-making policies and procedures for determining the most prudent protective action should be developed. Generally speaking, sheltering is best suited for those situations where there is little to no lead time, the nature of the event is external, and its duration is relatively short, i.e., a few hours or less. Evacuation can be partial or full, i.e., a part of the airport or the entire facility, and is generally more long-term.
- sheltering protective action decision, there should be a reasonable assurance that the evacuation of people from the airport facility(ies) will endanger their health and safety more so than allowing them to remain in place. An evacuation decision is a resource intensive decision. In actuality, evacuation protective actions are practical only if time and resources permit. The availability of transportation medical, and other resources, including destination shelters, may factor heavily in the protective action decision-making process. This section:
- (a) Identifies the scope of authority granted to an IC to act under standing orders from the Airport Manager/Chief Executive.
- **(b)** Describes the processes used for notifying the public of the need for taking a protective action.
- (c) Describes the methods used to secure the building(s) used for sheltering, including the processes for shutting off all sources of outside air (e.g., shutting down air conditioning systems).
- (3) Evacuation. The provisions that have been made for carrying out a complete or partial evacuation of the people from the airport are addressed. The areas likely to be evacuated are defined, if possible. The travel routes are specified and the destination of evacuees identified. The means used to transport evacuees are described. This section:
- (a) Identifies the scope of authority granted to an IC to act under standing orders from the Airport Manager/Chief Executive.
- **(b)** Describes the provisions that have been made for evacuating special needs populations.
- (c) Describes the evacuation options and the evacuation routes that have been developed to

protect and move the people away from the different types of hazards the airport faces.

- (d) Describes the modes of transportation that will be used to move evacuees.
- (e) When appropriate, describes the processes used to coordinate evacuation processes with the surrounding communities.
- **(f)** Describes the processes used to control access to evacuated areas.
- **(g)** Describes the provisions made to provide security for the protection of property that has been evacuated or remains in place.
- (4) Interjurisdictional Relationships. This section describes the formal arrangements that have been made with the emergency management organization(s) in the neighboring communities to facilitate the movement of evacuees from the hazard area and, if appropriate, provide them shelter and 'other services in a mass care facility.
- d. **Organization and Assignment of Responsibilities,** This section describes the protective action responsibilities that are assigned to tasked organizations. The following types of tasking may be assigned in support of the overall protective action function:

(1) Airport Manager/Chief Executive.

- (a) Issues a statement on the airport's policy on evacuation, including the policy regarding those people who do not comply with evacuation instructions.
- **(b)** Issues protective action instructions when appropriate.
- (c) Designates a Protective Action Coordinator.

(2) Protective Action Coordinator.

- (a) Reviews known information about the emergency situation and,makes recommendations to the Airport Manager/Chief Executive.
- **(b)** Identifies evacuation routes and coordinates with surrounding communities emergency management organizations.

(3) Law Enforcement.

- (a) Provides traffic control during evacuation operations.
- **(b)** Provides security to evacuated/sheltered areas/facilities.
- (c) Controls access to evacuated /sheltered areas.

(4) Public Information Officer.

Disseminates protective action instructions materials and information.

(5) All Tasked Organizations.

- (a) Make provisions to protect and secure facilities in the area(s) affected by the protective action.
- **(b)** Identify and make provisions to relocate the organizational equipment and supplies that will be moved from an evacuated area.
- e. Administration and Logistics. This section addresses the administrative and general support requirements for the protective action function.
- (1) Administration. Specific areas to be addressed include:
- (a) Records and reports associated with tracking the status of protective action events.

- **(b)** Attaching as an appendix maps that depict the routes that **have been** designated as primary and alternate evacuation routes.
- (2) **Logistics.** Specific area to be addressed include:
- (a) Provisions that have been made to move from the area being evacuated those essential supplies and equipment items that are needed to sustain operations and to meet the needs of evacuees.
- **(b)** Mutual aid agreements with neighboring jurisdictions that address the support (law enforcement personnel, vehicles to transport evacuees, etc.) to be provided by the jurisdictions to facilitate evacuation operations.
- (c) Procedures and equipment necessary to close off outside sources of air to buildings used for sheltering.
- f. Plan Development and Maintenance. This section should identify who is responsible for coordinating the development and revision of the airport's Protective Action Section, keeping its attachments current, and ensuring that SOPs and/or Checklists are current, and other necessary implementing documents are developed.
- **g.** Authorities and References: Authorities and references should be cited as appropriate.

SECTION 6. LAW ENFORCEMENT

- **6-6-1 GENERAL.** This function addresses law enforcement services available to the airport. For the purposes of this section, law enforcement services addresses response capabilities for response to emergency and disaster situations.
- **6-6-2 CONTENTS OF A LAW ENFORCEMENT SECTION.** The content of a Law Enforcement Section includes the following:
- **a. Purpose. This** section provides information which identifies the methods used in mobilizing and managing law enforcement services in response to emergencies. It includes a summary of the personnel and equipment, where they are located, general notification procedures, and overall statement of capabilities.
- b. Situation and Assumptions. This section describes the current airport law enforcement situation.
- 14 CFR part 107, Airport Security, requires certain airport operators to provide law enforcement, and specifies crimes and felonies that require law enforcement action. For and airport regulated under part 107, law enforcement procedures are already defined in its FAA-approved Airport Security Program (ASP). Such airports are to required to specify in their ASP law enforcement response and procedures that support the airport's security program, and air carrier passenger screening activities. To ensure consistency, situations and assumptions included in the Law Enforcement Section should be coordinated with law enforcement procedures specified in the ASP.

While 14 CFR part 139 does not have specific law enforcement requirements, events requiring law enforcement response under part 107 overlap with those events to which airports also regulated under part 139 are required to provide emergency response. In preparation for such events, the ASP and the Law Enforcement Section should be in sync.

This section should also address limitations or situations which may impact law enforcement support. Some of the typical assumptions that may be made include:

(1) On-airport and off-airport law enforcement emergency response support organizations will be available to assist in accordance with established agreements, plans, and procedures.

- (2) All responding law enforcement units will be familiar with their responsibilities.
- (3) Large scale emergencies may require law enforcement support of mutual aid agencies from long distances.
- (4) Some emergencies, such as bomb incidents or hijacking situations, will require specialized law enforcement and other technical support such as Explosive Ordnance Disposal (EOD) or the FBI. At airports regulated under 14 CFR part 107, the support will be specified in the ASP.
- (5) Public and private law enforcement /security services, including human resources, located at the airport and the communities it serves, may themselves be impacted by the disaster.
- (6) There may be some situations (e.g., wide area disaster) where the airport law enforcement services will be operating without the benefit of mutual aid support due to their commitment elsewhere.
- **Operations.** This section provides general information on the process of how law enforcement and related security services are to be provided at the airport and how those efforts will be coordinated with off-airport response organizations during times of emergency. This section also provides for the mobilization processes of law enforcement agencies as they relate to the airport environment, including security and operations in the air operations area. It addresses all phases of emergency response from through response to planning considerations. It identifies who will be in charge of directing these operations (e.g., Incident Command System), the interaction with other emergency response organizations (e.g., fire, EMS, etc.) and provides an overview of how these activities will be accomplished. Where appropriate, reference should be made to the Hazard-specific Sections of the Airport Emergency Plan and the ASP. It is recommended that the pre-emergency planning and coordination, as well as response and post-emergency planning and coordination be vested in one qualified person. An appropriate title for the individual tasked with this responsibility is "Law Enforcement Coordinator."

The Operations section should include provisions for:

- (1) General overall policies, plans and procedures of the airport law enforcement response to emergency situations, both on and off the airport. Response efforts to specific incidents may be referenced to the Hazard-specific Sections.
- (2) Law enforcement personnel and equipment available on the airport to respond to emergencies.
- (3) The airport's process for coordinating its plan with other law enforcement agencies who have responsibilities under the plan.
- (4) Mobilization processes for designated on and off-airport law enforcement personnel and equipment, including the specialized response support agencies such as Explosive Ordnance Disposal (EOD) and the Federal Bureau of Investigation (FBI) (this may be in the form of referencing the appropriate Hazard-specific Sections, such as bomb threat or hijack).
- (5) Process for coordinating law enforcement operations with other responding agencies, such as EMS and fire.
- (6) Overall airport familiarization and training program for designated on and off-airport law enforcement personnel, including the specialized support agencies.
- (7) Incident Command System to be used for law enforcement/security-related incidents at the airport.
- d. **Organization and Assignment of Responsibilities. This** section describes the specific organizational structure and associated responsibilities that are assigned to law enforcement for each type of emergency. At airports regulated under 14 CFR part 107, these items may be identified in the ASP>

(1) Airport Manager/Chief Executive.

- (a) Designate a Law Enforcement Coordinator to report to the EOC, when appropriate.
- **(b)** Establishes airport policy regarding off-airport response by airport law enforcement personnel and equipment.

(2) Police Chief/Law Enforcement Coordinator.

- (a) Ensures availability of sufficient numbers of qualified and trained law enforcement /security personnel to sustain support around the clock.
- **(b)** Ensures compliance with all standards and regulations involving law enforcement, including those involving bomb situations, civil unrest, hazardous materials, and other related matters.
- (c) Ensures availability and operability of all necessary emergency response equipment.
- (d) Ensures representation of a qualified law enforcement person in the EOC, when required.
- (e) Coordinates the response of multijurisdictional law enforcement response efforts on the airport.
- **(f)** Provides information regarding the fire and rescue response effort to the news media through the Public Information Officer (PIO).
- **(g)** Ensures emergency tire and rescue response information is provided to the EOC, as appropriate.
 - (h) Maintains a chronological event log.

(3) Military.

Provides personnel and equipment to support law enforcement-related operations during emergencies, such as EOD. (Usually at the direction of the Governor during disaster situations or in accordance with existing mutual aid agreements) or existing MOA's at joint use facilities.

(4) Tasked Organizations.

- (a) Adhere to all professional and legal standards in the performance of duties.
- (b) Provide ongoing status reports to the Law Enforcement Coordinator.
- (c) As needed, coordinate with other emergency services such as medical/EMS, tire, and public works.

(d) Refer all media requests for information to the Law Enforcement Coordinator or PIO, as appropriate.

- (e) Maintain updated resource inventories of- emergency supplies, equipment, and personnel resources, including possible sources of replacements.
- **(f)** Designate staff to perform emergency duties.
- **(g)** Prepare detailed SOPs and checklists that include: contact information and mechanisms for notifying personnel; step-by-step procedures for performing assigned tasks; contact information for similar services in other jurisdictions, to include contact information for law enforcement resources (air, land, water); and a listing of the radio communications call signs and frequencies used by responding organizations.
- e. **Administration and Logistics.** This section addresses the administrative and general support requirements associated with the Law Enforcement function.
- (1) Administration. Areas to be addressed include:
- (a) Reference or attach as an appendix the SOP(s) or checklist(s) containing the contact information (telephone number, radio frequency, etc.) of the emergency or other personnel to be notified of an emergency situation.

- **(b)** Attach as an appendix map(s) that depict the off-airport response area of the airport, to include access and traffic control locations, if applicable.
 - (2) Logistics. Areas to be addressed include:
- (a) Policies and procedures to test and maintain law enforcement support equipment.
- **(b)** Policies and procedures to repair or replace damaged equipment.
- (c) Policies and procedures to provide adequate law enforcement coverage should multiple incidents develop.
- (d) Agreements for use of private services agencies, personnel, equipment, and facilities to augment the airport's law enforcement capabilities.
- **f. Plan Development and Maintenance. This** section should identify who is responsible for coordinating revisions to any of the Law Enforcement plans, procedures, SOPs, and checklists, as well as developing new implementing documents, as necessary.
- **g.** Authorities and References. Authorities and references, such as the Airport Security Program should be cited as necessary.

SECTION 7. FIRE AND RESCUE

- **6-7-1 GENERAL.** This function addresses fire and rescue services available to the airport. For the purposes of this section, fire and rescue includes response capabilities for: Aircraft Rescue and Fire Fighting (ARFF), structural fire, rescue situations, and hazardous materials incidents.
- **6-7-2 CONTENTS OF A FIRE AND RESCUE SECTION.** The contents of a Fire and Rescue Section include the following:
- a. **Purpose.** This section provides information which identifies the methods used in mobilizing and managing fire and rescue services in response to emergencies. It includes a **summary** of the personnel and equipment, where they are located, general notification procedures, and overall statement of capabilities.
- Situation and Assumptions. This section b. describes the overall Aircraft Rescue and Fire Fighting situation at the airport, to include the certification elements of 14 CFR part 139, i.e., Index type, equipment available, staffing, training, etc. Not only do fire and rescue capabilities at the airport have to provide related support for emergencies involving aircraft, they must also be able to provide fire and rescue support for emergencies involving structures. Because response to many of these emergencies can very often become overwhelming and require specialized equipment and training, support from the communities surrounding the airport is often necessary. This section should describe the arrangements made with, and the capabilities of, the surrounding fire and rescue organizations.

This section should also address limitations or situations which may impact fire and rescue support. Some of the typical assumptions that may be made include:

- (1) On-airport and off-airport fire and rescue emergency response support organizations will be available to assist in accordance with established agreements, plans, and procedures.
- (2) All responding fire and rescue units will be familiar with their responsibilities.
- (3) Large scale emergencies may require fire and rescue support of mutual aid agencies from long distances.

- (4) Public and private fire and rescue services, including human resources, located at the airport and the communities it serves, may themselves be impacted by the disaster.
- (5) There my be some situations (e.g., wide area disaster) where the airport fire and rescue services will be operating without the benefit of mutual aid support due to their commitment elsewhere.
- **Operations.** This section provides general information on the process of how fire and rescue services are to be provided at the airport and how those efforts will be coordinated with off-airport response organizations during times of emergency. This section also provides for the mobilization processes of tire and rescue services as they relate to the airport environment, including such things as security and vehicular operations on the Airport Operations Area (AOA). It addresses all phases of emergency response from planning through response to post-event considerations. It identifies who will be in charge of directing these operations (e.g., Incident Command System), the interaction with other emergency response organizations (e.g., law enforcement, EMS, etc.), and provides an overview of how these activities will be accomplished. Where appropriate, reference should be made to the Hazardspecific Sections of the Airport Emergency Plan. It is recommended that the pm-emergency planning and coordination, as well as response and post-emergency planning and coordination be vested in one qualified person. An appropriate title for the individual tasked with this responsibility is "Fire and Rescue Coordinator."

The Operations section should include descriptions of:

- (1) General overall policies, plans and procedures of the airport fire and rescue response to emergency situations, both on and off the airport. Response efforts to specific incidents may be referenced to the Hazard-specific Sections.
- (2) Rescue and fire fighting personnel and equipment available on the airport to respond to emergencies.
- (3) The airport's process for coordinating its plan with other rescue and fire fighting agencies who have responsibilities under the plan. (ref. Part 139,

9/30/99

section 139.325, (g).

- (4) Mobilization processes for designated on and off-airport rescue and fire fighting personnel and equipment.
- (5) Process for coordinating fire and rescue operations with other responding agencies, such as EMS and law enforcement.
- (6) Overall airport familiarization and training program for designated on and off-airport rescue and fire fighting personnel.
- (7) Incident Command System to be used for fire and rescue incidents at the airport.
- d. Organization and Assignment of Responsibilities:, This section describes the specific organizational structure and associated responsibilities that are assigned to ARFF for each type of emergency.

(1) Airport Manager/Chief Executive.

- (a) Designate a Fire and Rescue Coordinator to report to the EOC, when appropriate.
- **(b)** Establishes airport policy regarding off-airport response by Airport Rescue and Fire Fighting (ARFF) personnel and equipment.

(2) ARFF Chief/Fire and Rescue Coordinator.

- (a) Ensures availability of sufficient numbers of qualified and trained ARFF personnel.
- **(b)** Ensures compliance with all standards and regulations involving tire and rescue response, which may include hazardous materials.
- (c) Ensures availability and operability of ARFF equipment as required by 14 CFR part 139.
- (d) Ensures representation of a qualified fire and rescue person in the EOC, when required.
- (e) Coordinates the response of multijurisdictional fire and rescue response efforts on the airport.
- **(f)** Provides information regarding the fire and rescue response effort to the news media

through the Public Information Officer (PIO).

- **(g)** Ensures emergency fire and rescue response information is provided to the EOC, as appropriate.
 - (h) Maintains a chronological event log.

(3) Law Enforcement.

- (a) Provides traffic and access control, and security assistance to fire and rescue scene operations.
- **(b)** Assists in the identification of any fatalities.

(4) Military.

Provides personnel and equipment to support fire and rescue operations during emergencies (usually at the direction of the governor during disaster situations or in accordance with existing mutual aid agreements) or existing MOA's at joint use facilities.

(5) All Tasked Organizations.

- (a) Adhere to all professional and legal standards in the performance of duties.
- (b) Provide ongoing status reports to the Fire and Rescue Coordinator.
- (c) As needed, coordinate with other emergency services such' as medical/EMS, law enforcement, and public works.
- (d) Refers all media requests for information to the Fire and Rescue Coordinator or PIO, as appropriate.
- (e) Maintains updated resource inventories of emergency fire and rescue supplies, equipment, and personnel resources, including possible sources of replacements.
- **(f)** Designates staff to perform emergency duties.
- **(g)** Prepares detailed **SOPs** and checklists that include: contact information and mechanisms for notifying personnel; step-by-step procedures for performing assigned tasks; contact information. for similar services in other jurisdictions, to include contact information for fire and rescue resources (air,

land, water); and a listing of the radio communications call signs and frequencies used by responding organizations.

- e. Administration and Logistics. This section addresses the administrative and general support requirements associated with the Fire and Rescue function.
- (1) Administration. Areas to be addressed include:
- (a) Reference or attach as an appendix the SOP(s) or checklist(s) containing the contact information (telephone number, radio frequency, etc.) of the emergency or other personnel to be notified of an emergency situation.
- **(b)** Attach as an appendix map(s) that depict the off-airport response area of the airport ARFF Department, if applicable.
 - (2) Logistics. Areas to be addressed include:
- (a) Policies and procedures to test and maintain ARFF equipment.

- **(b)** Policies and procedures to repair or replace damaged equipment.
- (c) Policies and procedures to provide adequate ARFF coverage should multiple incidents develop.
- (d) Agreements for use of private services agencies, personnel, equipment, and facilities to augment the airport's ARFF capabilities.
- **f. Plan Development and Maintenance. This** section should identify who is responsible for coordinating revisions to any of the ARFF plans, procedures, **SOPs**, and checklists, as well as developing new implementing documents, as necessary.
- $\begin{tabular}{lll} \textbf{g.} & \textbf{Authorities} & \textbf{and} & \textbf{References.} & \textbf{Authorities} \\ \textbf{and} & \textbf{references} & \textbf{should} & \textbf{be} & \textbf{cited} & \textbf{as} & \textbf{necessary.} \\ \end{tabular}$

SECTION 8. HEALTH AND MEDICAL

- 6-8-1 **GENERAL.** This function addresses the activities associated with the provision of emergency health and medical services at the airport. For the purposes of this section, health and medical includes: emergency medical service (EMS), public health environmental health, mental health, and mortuary services. The related activities include the treatment, transport, and evacuation of the injured; removal of the dead; and disease control activities related to sanitation, preventing contamination of water and food supplies, etc. during response operations during and after an emergency. Depending on needs and resources of a particular airport, consideration may be given to the preparation of separate sections for these functions.
- **6-8-2 CONTENTS OFA HEALTH AND MEDICAL SECTION.** The content of a Health and Medical Section includes the following:
- a. Purpose. This section provides information which identifies the methods used in mobilizing and managing health and medical services in response to emergencies.
- Situation and Assumptions. This section b. provides an overview and general assessment of the health and medical capabilities of the airport to And since most support emergency situations. airports do not have much in the way of health and medical capabilities, this section should also describe the capabilities of the surrounding communities it serves. This section should focus on the capability to provide medical care, treatment, transportation, and overall support to victims, response personnel, and the general public during the emergency response and recovery phases. To meet the requirements of FAR Part 139 section 325, the support capabilities should be sufficient to provide services "...for the maximum number of persons that can be carried on the largest air carrier aircraft that the airport reasonably can be expected to serve..."

This section should also address limitations or situations which may limit health and medical support. For example, those airports located in more remote areas may have limited medical/hospital support. Any such limitations should be discussed in this section. Assumptions may include:

(1) Maximum coordination and efficient use of these resources will be required since this Section addresses primarily large scale emergency and disaster

events that would involve sufficient casualties and/or fatalities which may overwhelm local medical, health, and mortuary services capabilities.

- (2) Public and private medical, health and mortuary services resources located at the airport, and the communities it serves, will be available.
- (3) Large-scale emergencies and disaster threat situations (hurricane, earthquake, flood, etc.) may affect large areas, requiring use of mutual aid from long distances.
- (4) Public and private health and medical resources, including human resources, located at the airport and the communities it serves may themselves be impacted by the disaster.
- (5) Emergency services to protect life and health during the first 12 to 24 hours after the disaster will probably be exclusively dependent on local and area resources.
- (6) Volunteers will come forward to help perform essential tasks; their presence and efforts must be anticipated and coordinated.
- c. **Operations.** This section describes how health and medical operations will be conducted at the airport and how those efforts will be coordinated with those of off-airport organizations. It provides for the mobilization of health and medical services mainly as it relates to the airport environment. It addresses all phases of emergency response from planning through response to post-event considerations. It identifies who will be in charge of directing these operations and provides an overview of how these activities will Because health and medical be accomplished. services include so many different activities, it is essential to establish a framework for these services to work together. It is recommended that the preemergency planning and coordination as well as response, and post-emergency planning 'and coordination be vested in one qualified person. An appropriate title for the individual tasked with this responsibility is "Health and Medical Coordinator." Since the local emergency response organization has probably accomplished this already, the major task for the airport operator in developing the Airport Emergency Plan will be the application of that information to the airport environment.

The Operations should include provisions for:

- (1) To the extent practicable, medical services including transportation and medical assistance for the maximum number of persons that can be carried on the largest air carrier aircraft that the airport reasonably can be expected to serve.
- (2) Describing the airport's process for coordinating its plan with rescue and fire fighting agencies who have responsibilities under the plan. (ref. Part 139 section 325, (g).
- (3) Within the Incident Command System structure, establishing a medical command post at the emergency scene.
- (4) Coordinating health and medical response team efforts.
- (5) Identifying each hangar or other building on the airport or in the communities it serves **that** will be used to accommodate uninjured, injured, and deceased persons.
- (6) Providing the name, location, contact information, and emergency capability of each hospital and other medical facility that agrees to provide medical assistance or transportation.
 - (7) Triage of the injured, if appropriate.
- (8) The transportation of the critically injured to medical facilities as quickly as possible.
- (9) Providing for the identification, transportation, and disposition of the deceased.
- (10) Isolating, decontaminating, and treating victims of hazardous materials, as needed.
- (11) Describing the overall airport familiarization and training program for designated on and off-airport health and medical personnel.

NOTE: AEP planners at those remote airports which have indicated in the Situation and Assumptions section that there is limited emergency medical/hospital support within the local communities should consider including contact information for local colleges or universities which may have medical personnel on staff. Consideration should also be given to contacting local hotels to determine if there are any guests which may have medical expertise.

d. Organization and Assignment of Responsibilities. This section describes the

responsibilities of those individuals and organizations tasked with providing emergency health and medical services at the airport.

(1) Chief Executive/Airport Manager. Requires the Health and Medical Coordinator to send a representative to the EOC when notified of an emergency situation.

(2) Health and Medical Coordinator.

- (a) Upon notification of an actual or imminent emergency or disaster take appropriate action.
- **(b)** Reports to the Airport EOC or other designated location; sends a representative if unable to report in person.
- (c) Coordinates efforts with local jurisdiction EOC, if appropriate.
- (d) Provides initial assessment of health and medical needs.
- (e) Oversees and coordinates the activated health and medical organizations to assess their needs, helps them obtain resources, and ensures that necessary services are provided.
- **(f)** Ensures a medical command post is established by emergency medical teams responding to an emergency site.
- **(g)** Coordinates multi-jurisdictional health and medical response efforts.
- **(h)** Ensures proof of licensure is made for all responding volunteers.
- (i) Maintains a patient/casualty tracking system. If an air carrier aircraft is involved, coordinates this effort with appropriate air carrier personnel.
- (j) Provides information regarding the health and medical response effort, including the number of injuries, deaths, etc. to the news media through the Public Information Officer (PIO). If an air carrier aircraft is involved, coordinates this effort with appropriate air carrier personnel.
- **(k)** Ensures emergency health and medical response information is provided to the EOC,

as appropriate.

(I) Coordinates support to the appropriate agency's (e.g. air carrier, airport, etc.) efforts to respond to inquiries from family members concerned about loved ones.

(3) Emergency Medical Services.

- (a) Respond to emergency scene with appropriate emergency medical personnel and equipment.
- **(b)** Upon arrival at scene, assume appropriate role in ICS. If ICS has not been established, initiate in accordance with established local standards.
- (c) Organize the necessary actions for triage, stabilization,- and treatment of casualties and prepare for their eventual transport.
- (d) Provide control and dispatch of the casualties to the appropriate medical facilities. Coordinate with the local and regional medical facilities to ensure casualties are transported to appropriate locations.
- (e) If au aircraft is involved, coordinate with the owner/operator representative the transportation of the uninjured to the designated holding area.
- **(f)** Establish and maintain field communications and coordination with other responding emergency teams (medical, fire, law enforcement, public works, etc.), and radio or telephone communications with medical facilities, as appropriate.
- **(g)** Maintain an accurate list of casualties, to include their names and destination medical facilities.
- (h) Arrange for restocking of medical supplies, as necessary.
- **(4) Hospitals.** Hospitals and other medical facilities designated in the emergency plan should be prepared to:
- (a) Implement the,, appropriate hospital disaster plan.
- **(b)** Advise the Health and Medical Coordinator or appropriate EOC representative of the

number and type of available beds. If an area-wide disaster is involved, also provide information regarding the condition of the hospital.

- $\mbox{\ensuremath{(c)}}$ Provide medical $\mbox{\ensuremath{\it care}}$ to casualties as they arrive.
- (d) Establish and maintain inter-hospital communications, as appropriate.
 - (e) Provide medical guidance to EMS.
- (f) Coordinate with EMS, other hospitals, and any medical response personnel at the scene to ensure casualties am transported to the appropriate medical facility. Take into account special requirements such as trauma or bum centers. Consider use of clinics to treat less than acute injuries.
- **(g)** Coordinate with local emergency responders to isolate and decontaminate incoming patients, if needed, to avoid the spread of chemical or bacterial agents to other patients and staff.
- (h) Depending on the situation and preemergency planning efforts, deploy medical personnel, supplies, and equipment to the emergency scene(s) or retain them at the hospital for incoming patients.
- (i) Establish and staff a reception and support center at each hospital for the relatives and friends of victims. If an air carrier aircraft is involved, coordinate this effort with appropriate air carrier $p\ e\ r\ s\ o\ n\ n\ e\ l\ .$
- **(j)** Provide patient identification information to the American Red Cross, air carrier. or other agency having a need for the information (e.g., NTSB).

(5) Environmental Health Officer.

- (a) Provides for the monitoring and evaluation of environmental health risks or hazards as needed. Ensure appropriate actions are taken to protect the health and safety of disaster victims, responders, and the general public.
- (b) Inspects damaged buildings for health hazards.
- (c) Detects and inspect sources of contamination.

(d) Coordinates with animal care and control agency to dispose of dead animals.

(e) Ensures that adequate sanitary. facilities are provided in emergency shelters and for response personnel.

(6) Mental Health Agencies.

- (a) Ensure that appropriate mental health services am available for disaster victims, survivors, bystanders, responders and their families, and other airport care-givers during response and recovery. Services may include crisis counseling, critical incident stress debriefings, information and referral to other resources, and education about normal,, predictable reactions to a disaster experience and how to cope with them. There should be specialized assistance available for those affected by a traumatic event or who become traumatized by cumulative stress related to the disaster experience.
- **(b)** Provide outreach services to identify and serve those **in** need of mental health support.
- (c) Coordinate with the PIO to arrange for dissemination of information to the public.
- (d) Coordinate with the American Red Cross to identify victims who may require assistance.

(7) Mortuary Services.

- (a) Provide for the collection, identification, and care of human remains, determining the cause of death, inventorying and protecting deceased's personal effects, and locating and notifying next of kin, as appropriate.
 - (b) Establish temporary morgue sites.
- (c) Establish and maintain a comprehensive record-keeping system for continuous updating and recording of fatality data

(d) Coordinate with:

- $\underline{\textbf{1}}$ Search and rescue teams, hospitals, EMS, and other emergency responders.
- 2 Funeral directors, morticians, and transportation assets for the movement of the deceased.

3 Other pathologists.

4 The ARC for location and notification of relatives.

NOTE: If this effort is in response to an aircraft accident, actions taken should be coordinated with the air carrier's plan developed under the Aviation Disaster Family Assistance Act (ADFAA).

- **5** Dentists and x-my technicians for purposes of identification.
- **<u>6</u>** Law enforcement agencies for security, property protection, and evidence collection.

(8) American Red Cross.

- (a) Provide food for emergency medical responders and patients, if desired.
- (b) Maintain a record-keeping sys-tern in coordination with hospitals, aid stations, and field triage/transportation units to collect, receive, and report information about the status of victims.
- (c) Assist in the notification of next of kin of the injured and deceased.
- (d) Assist with the **reunification** of the injured with their families.
- (e) Provide first aid and other related medical support at temporary treatment centers, as requested, and within capability.
- **(f)** Provide supplementary medical, nursing aid, and other health services upon request, and within capability.
- **(g)** Provide assistance for the special needs of the people with sight, hearing, or mobility impairments, elderly, and those children separated from their parents, within capability.
- **(9) Social Service Agencies.** Assist in providing for the special needs of the people with sight, hearing, or mobility impairments, elderly, and children separated from their parents; also provide for special needs of orphaned children.

(10) Animal Care and Control Agency.

(a) Coordinate with veterinarians and animal hospitals to arrange for animal services, as

needed.

(b) Coordinate with environmental health personnel regarding the location, collection, and disposal of dead animals.

(11) Law Enforcement.

- (a) Provide security assistance to medical facilities and to health and medical field personnel upon request.
- **(b)** Assist in the identification of fatalities,
- (12) Military. Provide personnel and equipment to support medical operations during emergency situations (usually at the direction of the Governor or in accordance with existing mutual aid agreements).

(13) All Tasked Organizations.

- (a) Adhere to all professional and legal standards in the performance of duties.
- (b) Provide ongoing status reports to the Health and Medical Coordinator, including number of deaths, injuries, and other appropriate information, etc.
- (c) As needed, coordinate with other emergency services such as fire, law enforcement, and public works.
- (d) Refer all media requests for information to the Health and Medical Coordinator or PIO, as appropriate.
- (e) Maintain updated resource inventories of emergency medical supplies, equipment, and personnel resources, including possible sources of replacements.
- **(f)** Designate staff to perform emergency duties.
- **(g)** Prepare detailed SOPs and checklists that include: contact information and mechanisms for notifying personnel; step-by-step procedures for performing assigned tasks; contact information for similar services in other jurisdictions; area and local stores (grocery and drug), and medical warehouses that will provide pharmaceutical and medical supplies; contact information for transportation resources (air,

land, water); and a listing of the radio communications call signs and frequencies used by responding organizations.

- e. 'Administration and Logistics. This section describes administrative and general support requirements for accomplishing emergency health and medical tasks.
- (1) Administration. This section focuses on the general support requirements and identifies sources that will be relied upon to obtain personnel, equipment and supplies, transportation, facilities, services, and other resources necessary to support emergency response and recovery operations. In most cases, these support requirements, such as Medical Response Teams and Augmentation Personnel will already be identified in the local jurisdictions' Emergency Operations Plan and in the local medical facilities' disaster plans. Mechanisms for activating these resources should also be identified.
- (2) **Logistics.** This section address the arrangements that have been made to provide for the support needs of the emergency health and medical response organizations.
- (a) Sources of medical supplies and equipment:
- <u>1</u> Local stores (hospitals, pharmacies, emergency vehicles, local government resources, etc.).
- **2** County-stored emergency aid stations, where available and usable.
- 3 Mutual aid from jurisdictions not affected by the disaster.
 - **4** Private sector suppliers.
- $\underline{\mathbf{5}}$ Private sector health care organizations that maintain a supply system for medical supplies and equipment.
- **6** National Disaster Medical System (NDMS) includes Department of Defense, Department of Health and Human Services, and FEMA. Note: access to these resources will be through the local jurisdiction to the state emergency management agency and FEMA.

(b) Acquisition of medical/health equipment and supplies including:

- $\underline{\mathbf{1}}$ Initial supply and resupply for field medical operations.
- 2 Initial supply and resupply for health and mortuary services.
- (c) Transportation of medical/health supplies, personnel and equipment:
- <u>1</u> Local airport/government-owned and commercial aircraft, trucks, and buses.
- 2 Armed Forces aircraft, and trucks.
- $\underline{\boldsymbol{3}}$ Private and public ambulance companies.
 - **4** Water transport.
 - **<u>5</u>** Limousine and taxi companies.
 - **6** Mortuaries (for hearses).
- **Z** Four-wheel drive and **high**-centered vehicles for medical evacuations under bad weather or terrain conditions.
- (d) Identification of buildings suitable for providing shelter for injured and non-injured victims.
- (e) Identification of buildings suitable for serving as temporary morgues.
- **(f)** Acquisition of embalming supplies, body bags and/or heavy-duty plastic, and heavy equipment suitable for dealing with a mass fatality situation.

- f. Plan Development and Maintenance. This section should identify who is responsible for coordinating revision of the airport's Health and Medical Section, keeping its attachments current, ensuring coordination with the local jurisdictions' program, keeping its attachments current, and ensuring that SOPs and checklists are developed.
- g. Authorities and References. This section should highlight those statutes, regulations, administrative orders, etc. which provide authority for the preparation of medical and health services disaster plans and for designating the name of the agency and/or title of the officials responsible for management of medical and health services during disaster response and recovery operations. It should also cite:
- (1) Authorities as applicable to coroner/medical examiner and mortuary services during disaster response and recovery operations.
- (2) Authorities that provide for access to, use of, and reimbursement for private sector resources in an emergency, and for emergency procurement procedures.
- (3) Authorities that provide for emergency powers under which emergency medical and public health activities are authorized. Also, the extent of liability and/or immunity status of emergency medical, public health, and mortuary services workers.
- (4) Other references used to prepare the airport's Health and Medical Section.

SECTION 9. RESOURCE MANAGEMENT

- **6-9-1 GENERAL.** Responding to an emergency takes all kinds of resources qualified and trained people, equipment, supplies, and facilities. And some of theses resources may have to be specialized, particularly because of the situations that 'might be encountered at an airport, e.g., aircraft removal. The resource management function is necessary to ensure that:
- a. A comprehensive list of **resources** required to support the emergencies to which the airport is vulnerable (reference the Airport's Hazards Analysis) is developed.
- b. A complete picture of these resources and their availability is known to decision-makers.
- c. All resources are used appropriately and arrive where and when they **are** most needed.
- d. Additional resources can be obtained for responders as their own resources are expended or damaged.
- e. Accountability is maintained for the airport's use of resources.
- 6-9-2 **CONTENTS OFA RESOURCE MANAGEMENT SECTION.** The content of resource management section includes the following:
- a. **Purpose.** A resource management section should describe the processes by **which an** airport will identify requirements, then find, obtain, allocate and distribute **those** resources to satisfy needs that are generated by an emergency.
- b. Situation and Assumptions. The situation and assumptions section describes the planning environment for the resource management function, i.e., factors that directly impact the ability of the airport to satisfy resource demand and manage support activities during response and recovery operations. Factors to be considered include:

(1) Situation.

(a) Hazards. The situation and assumptions section could outline the potential for emergencies which will require activation of the resource management function. In particular, the section should highlight potential critical resource shortages (e.g., power, potable water as a secondary

effect of floods or major storms) and credible emergency scenarios that would deplete responding agencies' resources. Possible effects on the transportation infrastructure should also be noted (e.g., bridge collapse from earthquake, airport access highway impassable due to flooding).

- (b) Resources. Complete listings of resources and planned requirements could be maintained in attachments to the plan, a resource database/manual, or in the functional SOPs/check-lists, as appropriate. The situation section should summarize the airport's status for general resource categories, such as:
- **1** Personnel (including skilled labor and professionals).
 - 2 Communications equipment.
- **3** Vehicles (land, air, water) for passengers (injured and non-injured), cargo, and debris removal (e.g., dump trucks).
- Heavy equipment for public works applications (e.g., cranes, road graders, etc.) and for handling materials (e.g., fork lifts, conveyor belts, etc.).

5 Pumps and hoses.

- Useful materials and tools such as fuel, sand and sandbags, plastic sheeting (for roof repair, etc.), shovels, picks, chainsaws, etc.
- Mass cam supplies such as first aid supplies; potable water; blankets; sanitation supplies (e.g., portable toilets); lighting (lanterns, light sticks, candles, etc.):

8 Portable generators.

(c) Mutual A i d. The situation and assumptions section could also note the airport's participation in mutual aid agreements. To resolve those emergency situations where airport resources will not meet requirements, airport operators should search the community in order to obtain the services that can produce the desired level of protection. Where appropriate, agreements should be in place to ensure availability of necessary support.

- (2) **Assumptions.** Assumptions might include the following:
- (a) **Information.** A resource inventory or database will be maintained by the designated Resource Manager.
- **(b) Initial sustainability.** Response agencies will sustain themselves during the first 24 hours of an emergency.

NOTE: This may **vary** from airport to airport, depending on their size and type of emergency.

- (c) **Availability of volunteers.** Performance of the resource management function will depend on the availability of a large pool of volunteers. Offers of help will be received.
- **(d)** Access to Mutual Aid. Some parties to mutual aid agreements to cover resource shortfall may be unavailable at the time of the airport emergency and unable to provide the resources,
- c. **Operations.** This section should describe how the resource management organization will be activated and the sequence of tasks it will perform. It should also set forth resource management policies.
 - (1) **General.** General policies might include:
- (a) **Priorities.** Emergency victims will take precedence in the allocation of resources. Specific priorities will be established by the designated Resource Manager in consultation with the Airport Manager/Chief Executive.
- **(b) Supplier of last resort..** Emergency response organizations should exhaust their own channels of support (e.g., mutual aid agreements with similar organizations in other locations) before resorting to the resource management function.
- (c) Costs. Purchase prices' and contract costs, where possible, should be established during plan development. Even if **eligible** for reimbursement, costs should initially be considered the responsibility of the requesting agency.

(2) Sequence of Activities:

(a) **Notification.** The designated Resource Manager should be among those initially notified of an **emergency**. When advance warning is available, suppliers with whom agreements exist

should be **notified** of the potential intent to activate the agreements.

- **(b)** Activation and deployment. The section should specify who (Airport Manager, Chief Executive, Emergency Manager) has the authority to activate the resource management function. It should also identify staff that will perform the function, and where it will be performed (e.g., EOC).
- (c) Emergency activity. This section should address four basic concerns of emergency resource management activity: determining needs, obtaining the resources, distributing the resources, and maintaining financial and legal accountability. A suggested organizational structure is presented at Figure 6-9-1.

(d) Determining needs.

Needs assessment (ongoing). The section should explain how needs known in the field are transmitted to the resource management organization At first, this may be a matter of anticipating needs based on preliminary damage assessments and past experience. All agencies should be tasked to report to resource management • directly or indirectly • any needs they are unable to meet through their own channels as the emergency progresses. The resource management organization must extract the following essential information from those who report a need:

- **a)** WHAT is needed and WHY, as specifically as possible (since a different item might work as well or better and be readily available).
 - b) HOW MUCH is needed.
 - c) WHO needs it.
 - **d)** WHERE it is needed.
 - e) WHEN it is needed.
- designated Resource Manager will apprise "the Needs Group" of established priorities. A formal classification system may be useful.
- a **Follow-up.** Resource requests should be logged, prioritized, passed on to those responsible for obtaining and committing resources, and then tracked from "the Supply Group" and "the

Distribution Group," and the requesting party. A recommendation is to use a "Resource Request': display board in the EOC on which each request can be visually monitored. The information is then readily available to all EOC staff.

(e) Obtaining supplies.

Mhen warning is available, the Supply Group should notify suppliers with whom agreements exist of the airport's intent to activate the agreement. Availability of supplies should be validated and key items should be reserved.

Evaluation of requests against known supplies (ongoing). Upon receipt of a request, the Supply Group should attempt to fill the need with airport resources' or, resources for which agreements are in place. If the needed resource is on hand, the Supply Group contacts the supplier, confirms transportation responsibilities, notifies the Distribution Group of the incoming resource (or of the need to pick it up) and its priority, and informs the Needs Group that action has been. taken on the request. If the needed resource is not available from prearranged suppliers, the next step is to procure (or hire) or solicit, a donation of the needed resource.

3 Procurement and hiring. When requests are of high priority for the airport, an expedited procurement or hiring process may be in order. Procurement involves contacting suppliers, negotiating terms (in coordination with the Financial Officer and Legal Advisor, if necessary), making transportation arrangements, notifying the Distribution Group and Needs Group of the action taken. Often during a declared state of emergency, procurement procedures can be streamlined.

(f) Maintaining financial and legal accountability. The Finance Officer should keep the Resource Manager and Supply Group aware of their authorized budget, log and process transactions, track accounts, and secure access to more funding s necessary and feasible. The Legal Advisor should keep them aware of their legal obligations-and, as mentioned above, of any special powers granted by law to expedite their tasks under declared emergency conditions.

1 Distributing goods and

a) Activating and operating

key facilities. The Resource Manager should determine where the incoming resources should be received. If possible, a Central Resource Receiving Point should be determined during the planning stage. The Distribution Group should be responsible for operating the receiving facility.

b) Traffic control. The,

Distribution Group should ensure that high priority resources are dispatched quickly to where they need to be

c) Hauling. Procurement efforts should try. to ensure that provisions are made for transport of procured resources..

d) Reporting and coordination. From the EOC, the Distribution Group would notify the receiving facility of incoming resources to expect, as well as their priority designation. The receiving facility should provide regular reports to the Distribution Group regarding the arrival of resources, allowing the Distribution Group to track the status of the resources.

(g) Post-emergency activity (recovery). When needs have largely been met, the crisis subsides, and the airport can begin to function as normal, the resource management function will have to address four areas:

- (h) **Disposal of excess stocks.** Loaned equipment will have to be returned to its owners. Surplus property can be dealt with through normal procedures except perhaps where. hazardous materials are involved.
- (i) **Stand down.** Facilities and staff should be deactivated as soon as is feasible, with all necessary reports and documentation completed and filed.
- (3) Financial settlement. The airport may need to reimburse or compensate the owners of private property. It may also have to submit required reports that address requests for any available financial assistance.
- (4) Thank-you's. Suppliers and donors who came through for the airport should receive some acknowledgment in coordination with the Airport Manager/Chief Executive. New suppliers might be approached regarding their interest in developing an

services.

agreement in time for the next emergency.

- (5) Coordination with Voluntary Agencies. A resource management section should address how the airport will coordinate its resource management activities with voluntary agencies own efforts. It should also address policies on use of volunteer labor.
- **NOTE:** Caution should be exercised when allowing untrained volunteers access to areas where they may be exposed to traumatic events, such as the seriously injured or fatalities. Not everybody is capable of dealing with such situations and, in effect, you may be creating "new casualties."
- Organization and Assignment of Responsibilities. The organizational structure depicted in Figure 6-9-1 is conceptual and is meant to reflect the resource management function: determine needs, find a source for meeting the needs, transporting and distributing the resources, and ensuring financial and legal accountability. It should be adapted to conditions at the specific airport. For example, at some locations, one person could perform the entire resource management function; at another, it may take a significant group. The important thing is to ensure that the entire process of resource management is well coordinated, however it is structured. The following types of tasking should be performed for resource management.
- (1) **Resource Manager.** Upon arrival at EOC:
- (a) Directs and supervises the activities of the Needs, Supply, and Distribution Groups.
- **(b)** Coordinates with the Emergency Manager and **staff** regarding needs and priorities in meeting them.
- (c) During the emergency, monitors potential resource shortages at the airport and advises the Emergency Manager of the need for action.
- (d) Identifies locations that may be used for storage of resources, if needed.

(2) Needs Group.

(a) Receives requests and reports on the function's success in meeting needs.

(b) Receives specific requests, eliciting essential information from requesting parties.

- (c) During multiple scene emergencies or disasters, monitors resource demands from Incident Command Logistics Officers and maintains list of all staging area resources, itemized by incident location.
- (d) Provides regular reports to the Resource Manager on the status of resource requests.

(3) Supply Group.

- (a) Locates and secures resources. As needed, includes teams for procurement, personnel, and donations. Should be supported with financial information and legal advice.
- **(b)** Determines appropriate means for satisfying requests.
 - (c) Handles unsolicited bids.
- (d) Keeps Needs Group informed of action taken on requests.
- (e) Keeps Distribution Group informed of expected movement of resources, along with priority designation for the resource.
- **(f)** Requests transportation support **from** Distribution Group, as needed.
- **(g)** Undertakes procurement using database and/or resource listings to fill requests **through** prearranged supply channels.
- **(h)** When advance warning is available, notifies private industry parties to any agreements of the airport's intent to activate the agreement, confirms availability of those resources, and reserves supply.
- (i) Contacts suppliers, settles terms for transportation, and provides necessary delivery information.
- (4) **Financial Officer. Oversees the** financial aspects of resource management, including record-keeping, budgeting for procurement and transportation, and facilitating any donations.
- (5) **Legal Officer.** Advises resource management team on contracts and other relevant legal matters.

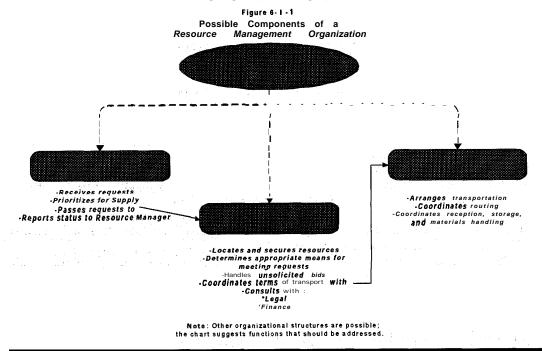
(6) Distribution Group.

- (a) Ensures delivery of resources by overseeing routing, transportation, collection, sorting, storage, and inventory.
- **(b)** When multiple scene emergencies or disasters occur, establishes liaison with all Incident Command Staging Officers to monitor location,

passage, and inventory of resources.

(7) All Airport Agencies. Provide knowledgeable staff to support Resource Management, as requested.

FIGURE 6-9-1. POSSIBLE COMPONENTS OF A **RESOURCE** MANAGEMENT, ORGANIZATION



- e. Administration and Logistics. This section addresses the administrative and general support requirements for carrying out resource management tasking.
- (1) Administration. The following areas should be addressed:
- (a) Reports and records. The section should address what kinds of records must be kept, for, how long, and in what form (hard copy, database, etc.), format; source documents, from whom to whom, and how they will be protected.
- **(b) Finance.** The section should address the airport's financial policies regarding the use of existing funds and how contingency. funds will be made available.

- (c) **Procurement. The** section should note the jurisdiction's policies on emergency procurement.
- (d) Hiring and other personnel matters. The section should note waivers of normal procedures for matters of hiring, assigning of work outside the normal job description, etc.
- (2) Logistics. The following areas should be addressed:

(a) Staffing.

- **1** Core cadre. The section should identify those resource management functions which should be staffed, regardless of the size of the emergency.
- 2 **Maximum complement. The** section should attempt to address the number and kind of

resource management facilities which may need to be activated and the maximum number of personnel that would be needed to support them. A breakdown by facility would be helpful.

3 Augmentation. The section should-address- how the airport will address resource management function staffing shortfalls, including reassignment of other airport employees, use of airport tenant personnel, or assistance from off the airport.

(3) Facilities.

- (a) Minimums. The section should describe where basic resource management activities will be conducted, especially if areas other than the EOC will be used. If remote areas will be involved, discuss communications links.
- **(b) Significant influx of resources expected.** The Resource Manager may establish other facilities such as the following:
- Receiving Point. Consideration should be given to a convenient, yet secure location to which all resources can be directed initially.
- **2** Staging Areas. Staging areas are locations to which personnel and/or equipment can report and receive briefings, and assignment to an operational location. Size and accessibility are important considerations when determining staging area locations,
- **3** Warehousing. There may be a need to store excess resources until needed after the emergency. This should be discussed in advance with appropriate airport tenants.
- **4** Lodging. Consideration should be given during the planning stages for each type of emergency as to whether or not there will be a need for lodging support for the influx of additional volunteers and government workers.
- (c) Communications. Because of the multi-location nature of resource management, a successful operation will depend on reliable communications. The number of telephones, telephone lines, fax machines, computer terminals, two-way radios, and other standard equipment will depend on the anticipated

size of the airport's resource management operation.

(d) Computers and **software.** Resource management can potentially involve large amounts of information best handled with automation such as databases and spreadsheet programs.

(e) Office equipment and supplies.

- **(f)** Forms. At many locations, there is a form for everything. Make sure there is a sufficient supply to get things started, as well as a mechanism to obtain or produce more.
- **(g) Transportation.** The section should discuss the transportation resources available to support the resource management function.
- f. Plan Development and Maintenance. There is much ongoing activity necessary to support the resource management function, including: planning meetings; updating resource listings; monitoring potential resource crises; developing and negotiating standard contracts and leases, memoranda of understanding, and mutual aid agreements; developing pm-scripted public information materials; writing and refining SOPs and checklists; training; and exercising the function. Responsibility for these activities should be assigned in this section.
- $\boldsymbol{g.}$ Authorities and References. Authorities and references might include:

(1) Authorities.

- (a) State and local emergency legislation.
- **(b)** Appropriate sections of airport, local, and/or state procurement regulations, particularly any provisions for an expedited process.
- (c) Airport, local, and/or state personnel regulations, especially those addressing any special hiring practices and authorities.

(2) References.

- (a) Airport, local, and/or state resource listings.
- **(b)** A compilation of Airport, local and/or state memoranda of agreement.
 - (c) Other resource directories.

(d) Suggested attachments:

 $\underline{\mathbf{1}}$ Map(s) identifying key facilities and transportation routes.

&Organizational chart.

3 Staffing information.

&Sample forms.

SECTION 10. AIRPORT OPERATIONS AND MAINTENANCE

6-10-1 GENERAL. This function addresses Operations and Maintenance at the airport. For the purposes of this section, Operations and Maintenance will be presented as a single entity. It is understood that their day-to-day roles are different and that often they are separate within the airport's organizational structure.

6-10-2 CONTENTS OFAN OPERATIONS AND MAINTENANCE SECTION. The contents of an Operations and Maintenance Section includes the following:

- a. Purpose. This section provides information which identities the roles and responsibilities of operations and maintenance personnel during an airport emergency. It includes a summary of the personnel and equipment, where they are located, general notification procedures, and overall statement of capabilities.
- b. Situation and Assumptions. This section describes the overall Operations and Maintenance situation at the airport, to include the staffing and general schedules and manning levels.

This section should also address limitations or situations which may impact operations and maintenance support. Some of the typical assumptions that may be made include:

- (1) All responding operations and maintenance personnel will be familiar with their responsibilities.
- (2) Airport operations and/or maintenance personnel may be the **first** to respond to many airport emergencies.
- (3) Airport operations personnel may have to represent airport management during the initial stages of some emergencies.
- (4) Operations and/or maintenance functions may not be covered **24-hours** a day, 7 days a week.
- (5) For some emergencies, airport maintenance personnel may have to make an initial determination if airport structures are safe

to use.

- c. **Operations.** The Operations section should include provisions for:
- (1) During most airport emergencies, someone from airport operations will respond to the emergency; airport maintenance will standby to respond to requests for assistance.
- (2) Airport operations personnel will evaluate the situation and its impact (real and/or potential) on the overall airport.
- (3) Airport operations personnel will ensure appropriate personnel/organizations are notified of the emergency.
- (4) Airport operations personnel will make initial determinations regarding the requirement for the issuance of **NOTAMs** to include the potential need for closing the airport to safely accommodate the movement of emergency response vehicles.
- d. Organization and Assignment of Responsibilities. This section describes the specific organizational structure and associated responsibilities that are assigned to airport operations and maintenance personnel for each type of emergency.

(1) Airport Manager/Chief Executive.

- (a) **Designate an** Airport Operations Coordinator to report to the EOC, when appropriate.
- **(b)** Designate an Airport Maintenance Coordinator to report to the EOC, when appropriate.
- (c) Establishes airport policy regarding off-airport response by airport operations and maintenance personnel and equipment.

(2) Airport Operations Coordinator.

- (a) Ensure compliance with all appropriate aviation standards and regulations.
- **(b)** Coordinate emergency response efforts with air traffic control personnel.

- (c) Ensure any required NOTAMs have been issued.
- **(d)** Ensure completion of necessary airport inspections upon emergency termination.
- (e) Prepare detailed SOPs and checklists that include: contact information and mechanisms for notifying personnel; step-by-step, procedures for performing assigned tasks; contact information for agency notification (e.g. air traffic control, FAA, NTSB, etc.); and a listing of the radio communications call signs and frequencies used by responding organizations.
- **(f)** Provide information regarding the status of the airport to the news media through the Public Information Officer (PIO).
- **(g)** Maintain a chronological event log.

(3) Airport Maintenance Coordinator.

- (a) Prepares and maintains an airport resource list.
- **(b)** Ensures the restoration of utilities to critical and essential facilities, when necessary.
- **(c)** Ensures the safety of facilities (e.g. post-earthquake).
- (d) Provides backup electrical power.
 - (e) Clears debris, as necessary.
- **(f)** Ensures availability of potable water supply.
- **(g)** Prepares detailed SOPs and checklists that include: contact information and mechanisms for notifying personnel and **step-by**-step procedures for performing assigned tasks.
 - (h) Provides sanitation services.
- (i) Maintains a chronological event log.

(4) Law Enforcement.

- (a) Provides access control to the air operations area.
- **(b)** Provides other law enforcement support, as required (e.g. FAR Part 107).

(5) All Tasked Organizations.

- (a) Adhere to all airport rules and regulations in the performance of duties.
- **(b)** Provide related status reports to the Operations and/or Maintenance Coordinator, as appropriate.
- e. **Administration and Logistics.** This section describes administrative and general support requirements for accomplishing emergency health and medical tasks.
- (1) Administration. This section focuses on the general support requirements and identifies sources that will be relied upon to obtain personnel, equipment and supplies. In some instances, supporting resource information may be available through the Resource Manager; in some instances, airport maintenance may perform the role of Resource Manager. SOPs/checklists should be developed for obtaining these resources should be referenced here.
- (2) Logistics. This section addresses the arrangements that have been made to provide for the support needs of the basic overall emergency response operation. It should be coordinated with but should not be duplicative of, the efforts of the other functional areas.
- (a) Facilities and Equipment. Necessary resources may include:
 - **1** Portable emergency shelters.
 - **2** Portable lavatories.
 - **3** Portable lighting.
 - **<u>4</u>** Portable power supplies.
 - **5** Cones, stakes, flags, and signs.
 - **6** Machinery, heavy equipment, cranes,

etc.

- **8** Fuel removal equipment.
- **9** Portable heating equipment.
- (b) Suppliers/Agreements. This section should reference agreements with suppliers. An attachment to the section should list day and night points of contact for such suppliers.
- f. Plan Development and Maintenance. This section should identify who is responsible for coordinating revision of the airport's Operations and Maintenance Section, keeping its attachments current, ensuring coordination with the local jurisdictions' program, keeping its attachments current, and ensuring that **SOPs** and checklists are developed.

g. Authorities **and References. This** section should highlight those statutes, regulations, standards, administrative orders, etc. which provide authority for the preparation of the Operations and Maintenance Section for disaster response and recovery operations:

(1) Federal Aviation Regulations.

(2) Advisory Circulars.

(3) Other references used to prepare the airport's Operations and Maintenance Section (e.g. International Civil Aviation Organization (ICAO), NFPA, etc.).

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CHAPTER 7. HAZARDS

7-1 INTRODUCTION. Up to this point, the basic functions have been discussed that need to be addressed for responding to most emergencies, -- i.e. direction and control, communications, emergency public information, etc. Through the Hazards Analysis Program, guidance has been provided to assist in the identification of those hazards and disasters specific to your airport that warrant **planning** attention.

Some of the hazards analysis has already been done for you in terms of specific requirements established in part 139. In the way of a refresher, part 139.325 requires the airport operator to develop plans and procedures response to the following emergencies:

- a. Aircraft incidents and accidents.
- b. Bomb incidents, including designated parking areas for the aircraft involved.
 - c. Structural fires.
 - d. Natural disasters.
- e. Hazardous materials, including Radiological incidents.
- f. Sabotage, hijack incidents, and other unlawful interference with operations.
 - **g.** Failure of power for movement area lighting.
 - h. Water rescue situations.
 - i. Crowd Control

NOTE: In the event of an accident or significant incident, the airport should be closed immediately either by the airport operator and/or the appropriate FAA air traffic facilities throughletters of agreement with the airport operator. Further, the airport, or portions thereof, should not be reopened until the airport operator has ensured that: (1) aircraft operating areas are secure: '(2) aircraft movement areas that are to be reopened have been properly inspected; and (3) adequate aircraft rescue and fire fighting protection is available for aircraft operations. The opening or closure of an airfield, or portion thereof, is the responsibility of the airport operator. However, in the fast developing dynamics that occur immediately after an accident or incident, the airport operator may not be in the best position to assess the

situation and make a decision on continuing operations or closing the airfield. To ensure the safety of airfield operations, it may be beneficial to establish procedures with the Airport Traffic Control Tower which gives **the** authority for closing the airfield under defined circumstances and guidelines to controllers. This can be accomplished through a Letter of Agreement with the Air Traffic Control Tower. Such procedures must provide safeguards to ensure that airport operations are continued or resumed only after it is determined that them is no adverse effect on persons or property on the airfield and that appropriate level of ARFF coverage is available. In addition, operations should resume (1) only after it can be ascertained that the rescue and evacuation activities associated with the event will not be impacted negatively by resumption of airfield operation, and (2) the accident event does no pose a hazard to the resumption of airfield operations.

This chapter will discuss how to take all of this information and apply it to your specific needs through the development of truly functional **hazard**-specific plans and procedures. It will explain how each airport can address its respective preparedness priorities as identified through the hazards analysis while at the same time meet regulatory requirements.

7-2 CONTENT OF A HAZARD-SPECIFIC SECTION. The content of a hazard-specific section should focus on the special planning needs of the particular hazard and not duplicate the information in the functional section. The section contains unique and regulatory response planning details **that** apply to a particular hazard. It addresses the essential operational actions that must be accomplished to facilitate the successful completion of a particular response function

It is recommended that the hazard-specific appendices follow the same structure -- i.e. include, as appropriate, the same content, sections (Purpose, Situation and Assumptions, Operations, Organization and Assignment of Responsibilities, Administration and Logistics, Plan Development, and Authorities and References) - as the functional section Tabs may be used to supplement the information and include such things as maps, resource inventories, checklists, etc.

The responsibility for making the decision on what to include in a hazard-specific section is vested with the airport's **planning** team. The flexibility of the **planning** approach described in this AC should make it

possible to accommodate and satisfy:

- a. The **planning** requirements associated with unique aspects of your airport and with the various regulatory authorities.
- b. The different constituencies in the airport's **emergency** response **organizations**.
 - c. The members of the **planning** team.'
- Table 7-1 identifies the core **functional** areas discussed in Chapter 6 and provides a synopsis of the typical hazard-specific planning considerations associated with each. The planning team should consider this information when making its decisions on **the** kinds of information to be -included in the appendices.
- NOTE: It is **important** to remember that there are other regulations and **mandated** standards related to emergency **preparedness** which may impact your airport (e.g. OSHA 1919.120, SARA Title III, NFPA, etc.). Consider including them in this planning p m c e s s.

		 -	
	Functional Section	Haz	zard-Specific Section Topics
Ι	Direction and Control	+	Response actions keyed to specific time periods and phases
		+	Damage. assessment
		+	Debris removal
2		*	Facilities inspection
		+	Protective gear for responders
		· +	
			Detection equipment and techniques
	1	+	Utilities and lifeline repairs
	2	+	Search and rescue
		+	Actions to ensure the area is safe and secure for the return of
			evacuated populations or for scene investigation personnel
	Communications	. +	Provisions that have been made to ensure that effects associated
			with a particular hazard do not prevent or impede the ability of
			response personnel to communicate with each other during
			response operations
	Alert and Warning	+	Hazard-unique public alert and warning protocols
, l		+	Required or recommended notifications of specific emergency
		. *	response agencies, to include local, State, and Federal
	Emergency Public	+	
	<i>O</i> .	, T	Information the public (employee and transient) will need to
	nformation		know about the particular hazard (e.g. special evacuation routes,
			in-place sheltering)
		+	Means that will be used to convey that information to the public
1	Protective Actions	+	Evacuation or in-place sheltering options and their timing
		+	Special exclusion zones for the particular hazard (e.g. down- and
			cross-wind areas for nearby nuclear power and major chemical.
			plants; low-lying/coastal areas subject to flooding caused by
			storms, hurricane, tidal surge)
		+	Evacuation routes
		*	Transportation resources to support mass evacuations
ī	Law Enforcement	+	Special traffic and/or access control requirements
	Saw Emorection	+	Special or secure communications procedures
		+	Special or unique resource, equipment, and/or supplies
		7	
	Fire and Rescue	A	requirements
	THE AHUTRESOILE	+	Special or unique response force (e.g. HAZMAT Team;)
			requirements
		+	Special or unique resource, equipment, and/or supplies;
			requirements
	Health and Medical	+	Special or unique health consequences and treatment options for
			people exposed to the hazard
		+	Environmental monitoring and decontamination requirements
		. +	Special or unique resource, equipment, and/or supplies
			requirements
	Resource Management	+	Provisions for purchasing, stockpiling, or otherwise obtain&;
	e e e e e e e e e e e e e e e e e e e		special protective gear, equipment, medical supplies needed fo ir
			response operations and to meet the immediate needs of disaster
			victims
	Airport Operations and	+	Special or unique notification requirements (e.g. NOTAM, FAA,
	Maintenance	•	NTSB, etc.)
		+	Provisions for conducting necessary facility inspections
			FROTISHES - DE CORRECTING CHOCOSSATY TACHTY HISUCCUOIS

Table 7-1. Typical Content of Hazard-Specific Appendices as related to Core Functional Section.

SECTION 1. AIRCRAFT INCIDENTS AND ACCIDENTS

7-1-1 INTRODUCTION.

- a. Definitions.
- (1) Aircraft Accident. Any **occurrence** associated with the operation of an aircraft that takes place between the time a person boards the aircraft with the intention of flight and the time such person has disembarked, in which a person suffers death or serious injury as a result of the occurrence or in which the aircraft receives substantial damage.
- (2) Aircraft Incident. Any occurrence associated with the operation of an aircraft that is not considered an "aircraft accident."
- b. **General. Airport** operators should have an emergency preparedness plan for an **aircraft** incident or accident under a number of circumstances:
 - (1) On the airport.
- (2) Off the airport on adjacent property and within the authority and responsibility of the airport to respond (e.g. Mutual Aid Agreement).
- (3) Off the airport where the **airport** is either a point of origin or destination.
- (4) Off the airport in situations where passengers involved in the incident/accident are residents of the local community.

N OTE: The degree of involvement may vary **from** situation to situation.

7-1-2 PURPOSE. The information contained in this hazard-specific section is intended to supplement the Basic Plan and Functional Section of the Airport Emergency Plan. It defines responsibilities and describes actions to be taken in the event an aircraft incident/accident affects the airport in any of the situations. Further, this document, in con-junction with the Basic Plan and Functional Section, forms the basis for elements to be included in functional Standard Operating Procedures (SOPs) and Checklists.

7-1-3 SITUATION AND ASSUMPTIONS.

This section should describe airport's situation to include:

- a. ARFF Index.
- b. Hours of operations.
- c. Airport Traffic Control Tower (ATCT) hours of operation.
- **d.** Number of runways.
- e. A summary of daily operations by aircraft category, i.e. air carrier, commuter, general aviation.
- f. A summary of aircraft types normally using the airport, e.g. B-757, Saab 340, B-737, MD-80, etc. For planning purposes, the maximum number of passengers each type of aircraft carries should be indicated.
- **g.** A summary of **airport** staffing, i.e. ARFF, Law Enforcement, operations, Maintenance, Administration, **etc.** Indicate how each is provided, i.e. employee, contracted service, **cross-trained** (Police/ARFF; Maintenance/ARFF, etc.),
- h. A **summary** of airport **staffing** availability per function (reference Figure 7-l-l).

(Function- Operations, ARFF, Maintenance, etc.)			
Hours	Frequency	Personnel	
0800 -	7 days/week	1 supervisor	
1600		3 others	
1600 -	7 day/week	1 supervisor	
2400		2 others	
2400 -0800	Mon Fri.	1 supervisor	
		1 other	
	Sat Sun.	1 supervisor	

Table 7-1-1. Sample Manpower Chart.

a. It is recommended that the airport base its emergency response program on its minimum staffing levels as determined by the above information. Planning consideration must also be given to the ATCT hours of operation, as appropriate.

- b. Describe the airport's policies and procedures for ARFF response during periods of low visibility, such as pre-positioning.
- c. It is recommended that, for the purposes of emergency response, each aircraft incident/ accident should be considered a potential hazardous materials incident.
- d. Describe the airport's policy regarding the activation of the Emergency Operations Center for aircraft incidents/accidents.
- 7-1-4 OPERATIONS. This section should describe actions to be taken if an aircraft incident/ accident should occur on or adjacent to the airport.
- a. Classifications. It is recommended that some type of incident classification system be developed. For example:
- (1) Alert I (Local Standby): An aircraft that is known or suspected to have an operational defect that should not normally cause serious difficulty in achieving a safe landing. This is notification only. No response is required. All units involved will be

manned and will standby in quarters.

- (2) Alert II (Full Emergency): An aircraft that is known or is suspected to have an operational defect that affects normal flight operations to the extent that there is danger of au accident. All units respond to predesignated positions.
- (3) Alert III (Aircraft Accident): An aircraft incident/accident has occurred on or in the vicinity of the airport; All designated emergency response units proceed to the scene in accordance with established plans and procedures.
- Categories. In order to better manage limited resources, some airports may wish to categorize their response based on the actual number of occupants (passengers and crew) of the aircraft involved. All airport ARFF vehicles should respond to all potential/actual incidents/ accidents, regardless of size of aircraft. How-ever, it may not be necessary to respond with the same number of off-airport fire and emergency medical vehicles for a small commuter aircraft as for large air carrier. Decisions such as this may be left with the Incident Commander based upon the specific incident. Planners may wish use the largest aircraft normally serving their particular airport to determine required resources. For planning purposes, the casualty numbers in Table 7-1-2 may be used.

, Aircraft Occupants	Number of casualties	20 % casualties Immediate Care Priority I	30 % casualties Delayed Care Priority II	50 % casualties Minor Care Priority III
500	375	75	113	187
450	338	68	101	169
400	300	60	90	150
350	263	53	79	131
300	225	45	68	112
250	188	38	56	94
200	150	30	45	75
150	113	23	34	56
500	38	185	23	39

These figures are based on the assumption that the maximum number of surviving casualties at an aircraft accident occurring on or in the vicinity of the airport is estimated to be **about** 75 % of the aircraft occupants.

Source: ICAO Airport Services Manual, Part 7, Airport Emergency Planning, Section 3, Airport Medical Services

Table 7-1-2

- d. Emergency Phases. Due to the unique nature of an aircraft accident, AEP planners may wish to base their activities on the following emergency phases:
- (1) Response Phase. That portion of the initial response effort where activities are focused on fire suppression, rescue operations, and dealing with any hazardous materials issues.
- (2) Investigatory Phase. Unlike many other types of emergencies, an aircraft incident or accident may require some type of activity specific to the gathering and analysis of information, the drawing of conclusions, including the determination of cause. This activity may, depending upon conditions, begin during the Response Phase and continue through the Recovery Phase. The investigation is normally the responsibility of the National Transportation Safety Board (NTSB).
- (3) Recovery Phase. Returning the airport to a normal operational condition as soon as possible is extremely important AEP **planners** should consider a separate set of plans, SOPs, and Checklists to cover this activity. Recovery activities can begin during the Response Phase and continue through the Investigatory Phase, depending upon the situation.

Describe the relationship between the AEP and other emergency response plans (e.g. the local jurisdiction(s) EOP) regarding aircraft accident response and recovery actions on the airport.

- e. Describe the aircraft incident/accident response and recovery actions and procedures of airport personnel.
- **f. Describe** the response and recovery actions of all the local response organizations **in the** vicinity of the airport, including public and private sector, as well as volunteer and charitable organizations as they relate to response on the airport. This information should **already** be available in local plans, particularly in the area mass casualty, response.
- g. List mutual aid agreements or other arrangements for sharing data and response resources.
- h. Preservation of Evidence. Airport fire fighters and other rescue personnel should understand the basic need for, and the techniques and procedure **used**, in aircraft accident investigation Whenever possible, the wreckage should remain undisturbed until the arrival of the first National Transportation Safety Board (NTSB) accident investigator. Prior to the time the NTSB or its authorized representative takes custody of aircraft wreckage, mail, or cargo, such wreckage, mail, or cargo may not be disturbed or moved except to the extent necessary:
 - (1) To remove persons injured or trapped;
 - (2) To protect the wreckage from further damage; or
 - (3) To protect the public from injury,

Where it is necessary to **move aircraft** wreckage, mail, or cargo, sketches, descriptive notes, and photographs shall be made, if possible, of the original position and

the wreckage **and** any significant impact **marks**. (49 CFR Ch VIII).

- 7-1-5 ORGANIZATION AND ASSIGN-MENT OF RESPONSIBILITIES. Some examples might include:
 - a . Air Traffic Control Tower.
 - (1) Activate: the appropriate alarm system.
- (2) Issue appropriate **NOTAMs** as requested by the airport operator or as established by Letter of Agreement.
- (3) Control aircraft and ground vehicle operations on the airport in support of the emergency response, if the airport remains open.
- (4) Control airspace in the vicinity of the incident/accident to ensure other aircraft do not **interfere** with emergency response activities.
 - (5) Make appropriate FAA notifications.
- **b.** Aircraft Rescue and Fire Fighting (ARFF).
- (1) Respond to aircraft incident/ accident location in accordance with established policies and procedures.
- (2) Assume lead in Incident/Unified Command System for initial fire and rescue operations in accordance with established policies and procedures.
- '(3) Ensure appropriate mutual aid emergency response organizations have been **notified** and are taking appropriate action.
 - c. -Law Enforcement.
- (1) Initiate and maintain **appropriate Traffic** and Access Control.
 - (2) Provide scene support and security.
- (3) Assist with/provide AOA access control and escort.
- (4) Ensure appropriate mutual aid organizations have been notified and are taking

appropriate action.

- (5) Provide necessary investigative support.
- d. Emergency Medical Services.
- (1) Provide **necessary** triage and on-scene initial treatment of casualties.
- (2) **Ensure** appropriate mutual aid organizations have been notified and are taking appropriate action.
- (3) Provide for the movement (land, water, air) of casualties to appropriate treatment facilities.
- (4) Maintain an accurate list of casualties and their respective destination treatment facilities.
- (5) Coordinate with the involved air carrier the transportation of the uninjured to the designated holding area
- (6) Arrange for restocking of medical supplies, if **necessary**.
 - e. Airport Operator.
 - (1) , General.
- (a) Designate each hangar or other building on the airport or in the communities it serves that will be used to accommodate uninjured, injured, and deceased **persons**.
 - (b) Activate the EOC, as needed.
- (c) Ensure all appropriate notifications have been made, **including**:
- 1 National Transportation Safety Board (NTSB).
 - **2** FAA.
 - **3** Airport response personnel.
- (d) Provide emergency support services, as requested, through the **EOC**.
- (e) Ensure emergency response personnel have received appropriate **training**.

aircraft accident. However, there may be some instances where it may take some time before the air carrier can fully implement its plan. In the interim family members may look to the airport operator for information and assistance. While there may be no legal obligation to do so, each airport operator should consider including provisions for basic family support in the AEP to deal with these situations.

These enhancements will allow for a reduction of stress and trauma of family members and allow for a smoother transition once the affected air carrier arrives with the necessary personnel and logistical resources. The following are a number of basic issues that, if addressed, can improve the first 12 hours of a local community response:

Establish a group of all air carriers serving the airport which would respond to assist the affected carrier during the fiit 12 hours. This group could also respond to charter carriers or emergency diversions that involve non-tenant air carriers.

Utilize local emergency service resources for specific functions at pre-designated areas, such as collecting names, addresses, and telephone numbers of passengers that do not receive medical attention.

Pre-determine locations for key facilities, such as a "Friends and Relatives" reception area, and other areas where families may gather.

Incorporate existing security plans to include the **affected** air carrier ticket counter, "Friends and Relatives" reception area, and other areas where families may gather.

station managers and airport operator may need concerning passengers, their families, and the accident site. Establish a process by which this information is relayed to the affected air carrier and emergency operations centers.

Review procedures for emergency access to the terminal by air carrier employees and emergency service providers during an event.

Pre-arrange or assist in securing hotel rooms in the local area for non-tenant air carriers involved in an emergency diversion or for charter carriers that have no employees at the airport.

(2) Airport Operations.

- (a) Through the Unified/Incident Command System:
- (b) Ensure that supporting emergency response agencies **(fire,** medical, law enforcement, etc.) have responded
- (c) Coordinate response actions, with the ATCT.
- (d) Determine need to totally/ partially close the airport and issue appropriate ${f NOTAMs}.$

N OTE: In the event of an accident or significant incident, the airport should be closed immediately either by the airport operator and/or the appropriate FAA air traffic facilities through letters of agreement with the airport operator. Further, the airport, or portions thereof, should not be reopened until the airport operator has ensured that: (1) aircraft operating areas are secure; (2) aircraft movement areas that am to be reopened have been properly inspected, and (3) adequate aircraft rescue and fire fighting protection is available for aircraft operations.

The opening or closure of an airfield, or portion thereof, is the responsibility of the airport operator. However, in the fast developing dynamics that occur immediately after an accident or incident, the airport operator may not be in the best position to assess the situation, and it may be beneficial to establish procedures with the ATCT which gives the authority for closing the airfield under defined circumstances and guidelines to controllers. This can be accomplished through a Letter of Agreement with the Air Traffic Control Tower. Such procedures must provide safeguards to ensure that airport operations are continued or resumed only after it is determined that there will be no adverse effect on persons or property on the airfield and that appropriate level of ARFF coverage is available. In addition, operations should resume (1) only after it can be ascertained that the rescue and evacuation activities associated with the event will not be impacted negatively by resumption of airfield operation, and (2) the accident event does no pose a hazard to the resumption of airfield operations.

- (e) Ensure that a representative of the affected aircraft owner/operator has been notified.
- **(f)** Provide technical assistance to the Incident Commander.
 - (g) Participate in EOC activities.

(h) Monitor, and coordinate as required, other concurrent airport activities.

(3) Maintenance

- (a) Assist/provide critical services, including utility support (activation/cut-off), as needed.
- (b) Provide sanitation services for extended operations.
- (c) Assist in the provision of required resources.
- (d) To the extent possible, arrange to have available the following equipment/supplies/services:
 - **1** Portable lavatories.
 - 2 Drinking water.
 - **3** Ropes, barricades, barrier tape,
 - **4** Portable lighting.

etc.

- **5** Cones, stakes, flags and signs.
- **6** Portable shelter(s), as needed.
- **7** Machinery, heavy equipment, and extraction tools.
 - **8** Fuel removal equipment.
 - **9** Portable public address system.
- **10** Communications equipment (cellular telephones, two-way radios, etc.).
 - 11 Participate in EOC activities.
 - (4) Administration.
- (a) Provide budgeting, payment and other financial support.
 - (b) Provide procurement services.
 - (c) Participate in **EOC** activities.

- **(d)** Provide tracking of expenses for potential reimbursement.
 - (5) Public Information/Community Relations.
- (a) Develop and provide press releases relative the airport's responsibilities and activities, as needed.
- (b) Interface with the media, as well as with air carrier and emergency response on-scene public relations **personnel**.
 - (c) Participate in EOC activities.
- f. Aircraft Owner/Operator or Designated Representative.
- (1) Provide pertinent information to Incident Commander, to include:
 - (a) Number of persons on board.
- (b) The presence and location of any dangerous goods.
 - (2) Provide EOC representation.
- (3) Make necessary notifications, to include the FAA and \mbox{NTSB} .
- (4) Arrange for appropriate passenger services, to include:
- (a) The transportation of uninjured passengers/crew members.
- (b) Adequate holding facilities for uninjured passengers/crew members.
- (c) Commissary items, telephone facilities, clothing, and additional medical services, as needed.
- (d) Facilities for friends and families of victims/passengers.

NOTE: The Aviation Disaster Family Assistance Act of 1996 (ADFAA) requires each air carrier to have a plan in place to deal with the families of victims involved in an aircraft accident

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- (f) Hotel and/or other alternative travel arrangements for passengers.
- **(g)** critical Incident stress Disorder support.
- (5) Implement approved plan in compliance with the requirements established in the AFDAA.
- (6) Coordinate news releases with **Airport** Community/Public Relations personnel.
- (7) Provide for the timely removal of the wrecked or disabled aircraft as soon as authorized by the appropriate authority.
 - **g.** Other Airport Tenants. Continue to provide services based upon conditions.
- h. National Transportation Safety Board (NTSB). The NTSB "... is responsible for the organization, conduct, aud control of all accident investigations involving civil aircraft, or civil aud military aircraft, within the United States, its territories and possessions. It is also responsible for investigation of accidents which occur outside the United States, and which involve U.S. civil aircraft, at locations determined to be not in the territory of another state (i.e. in international waters)." (reference 49 CFR Ch VIII, §831.2, Responsibility of the Board.
- 7-l-6 ADMINISTRATION AND LOGIS-TICS. This section of the document should cover those general support requirements specific to aircraft incidents and accidents. Because of the unique **nature** of aircmft incidents/accidents, specialized resources, policies and procedures may be appropriate.
- 7-1-7 PLAN **DEVELOPMENT.** This section should **identify** who is responsible for coordinating revisions of the Aircmft Incident/Accident section, 'keeping its attachments current, and ensuring that **SOPs** and Checklists are developed and maintained.
- 7-1-8 AUTHORITIES AND **REFER**-ENCE **S**. This section should **identify** any aircraft incident /accident-specific statutes, regulations, etc. that are applicable to the airport.
- 7-1-9 **UNIQUE** PLANNING CONSIDER-ATIONS. This section identifies many of the

unique planning considerations that should be identified by the **AEP** Planning Team.

a. General. For the most part, the primary planning role of the airport operator will be to coordinate the planning, response, and recovery efforts with the local emergency response organizations.

b. Direction and Control.

- (1) Due to the complex and specialized nature of aircraft incidents/accidents, consideration should be given to using some type of Unified Command System (reference Chapter 6, Section 1, *Direction and Control*). This provides for joint field participation and coordination with all agencies having an interest in the operation, including the airport operator and the aircraft owner/operator.
- (2) It may be prudent to consider using the three different Phases (Response, Investigatory, and Recovery) when dealing with Direction and Control planning. For example, ARFF should probably take the lead during the initial fire suppression and fescue activities.
- (3) Remember that each aircraft incident/accident should be treated as a potential hazardous materials site and all emergency response activity should treat it as such, i.e. an ICS should be used and levels of training should be considered when determining response personnel.
- (4) Upon determination that the incident /accident site no longer poses a fire or hazardous materials threat to the health and safety of untrained personnel, the IC may consider terminating the Response Phase of the emergency and allowing the Investigatory Phase to begin. However, consideration should be given to having ARFF/Hazardous Materials/Fire remaining as lead agency until all injured and deceased have been removed **from** the scene and during auy hazardous materials mitigation activities, such as aircraft **defueling**.
- (5) Once that has been completed, and upon consultation with other Unified Command representatives, IC lead may be transferred to the investigating agency.
- (6) The appropriate investigating agency(s) (e.g. NTSB, FAA, etc.) may provide IC lead **during** the Investigatory Phase of the emergency.
- (7) Upon determination by the agency(s) that the airport can begin site **recovery**, and upon consultation with qther Unified Command representatives, IC lead may be transferred to the airport.

- (8) The airport may provide the lead during the Recovery Phase.
- (9) Whatever the form of Incident Command used, it is essential that it be determined and agreed upon by all participating agencies during the planning stages. The plan should be very specific in its designation of all responsible entities, their authority and function in the ICS. It should also clarify the functions of the on-scene Incident. Command Post (ICP) and the Emergency Operations Center (EOC), particularly if both the airport and any off-airport organization(s) activate one.

Communications.

- (1) communications at an aircraft incident/accident site can be very complex and go beyond those described in Chapter 6, Section 6-B, *Communications*. Multiple jurisdictions, multiple agencies (fire, police EMS, etc.), large and sometimes inhospitable geographic **areas** and weather conditions, high noise levels, etc. all contribute to the difficulty.
- (2) A communications network should consist of a sufficient number of radio transceivers, telephones (land line and mobile), and other communications equipment sufficient to establish redundant communications capability. This network should link all participating agencies, including the ICP and EOC(s).
- (3) Because of the high volume of communications traffic, it is essential that radio procedures/protocols be established and related training programs provided. Radio and telephone communications should be limited to those which are essential; they should be concise.
- (4) Every effort should be made to include the air carrier(s) communications capability in the Plan
- (5) Runners should be included in the plan to augment the communications system, especially in high noise areas.
- (6) Consider use of amateur radio operators (RACES, ARES) as source of communications, including Packet radio and TV capabilities.

- (7) Many telephone companies have mobile telephone banks which can be brought to the scene of a disaster.
- (8) The AEP should include provisions for communications with the **aircraft** cockpit. The air carrier should be able to assist with this resource.
- (9) A dedicated communications vehicle/ mobile command post with self-contained electrical power can be an asset to a reliable and functional communications system. Many local government emergency management agencies have one available.

d. Alert and Warning.

(1) For airports certificated under 14 CFR part 139, section 139.325(e) requires that procedures be in place "... for notifying the facilities, agencies, and personnel who have responsibilities under the plan of the location of an aircraft accident, the number of persons involved in that accident, or any other information necessary to carry out their responsibilities, as soon as that information is available.?

(2) The plan should specify:

- (a) Who is responsible for initiating the process for notifying both on and off-airport emergency response organizations of an aircraft accident. Normally, the ATCT will be the facility -first aware of an aircraft accident and will initiate a notification process, However, the possibility exists that another agency such as a 9-1-1 Center or local fire department dispatcher may have to initiate the notifications. AEP planners must consider all of the possibilities and ensure that the process is well-documented and understood by all participants.
- **(b)** How notifications are made. A description of the system(s) used to include types of equipment, such as:
 - **1** Crash phone/direct line.
 - 2 Pager.
 - **3** Commercial telephone.
 - **4** Cellular telephone.
 - 5 Radio system.
- (c) A back-up system or process. Describe the notification processes in the event the primary

notification system becomes inoperative.

- **(d)** The information to be transmitted during the initial notification. This should include:
 - 1 Type of aircraft.
 - 2 Number of persons on board.
 - **3** Fuel quantity.
- $\underline{\mathbf{4}}$ The presence of any known dangerous goods.
- **5** The location of the accident, if known If possible, use a grid map to describe the location.
- **(e)** Refer to Chapter 6, Section 3, *Alert* and Warning, for more information.
- e. Emergency Public Information. Emergency Public Information (EPI) is a very important part of the overall response program. Because of the potential for major media coverage and a significant number of involved agencies, many with their own EPI programs, it is essential that the airport plan include:
- (1) Provisions for coordinating news releases with other participating agencies, such as the air carrier and NTSB.
- (2) Provisions for controlled scene access for the media.
- (3) Specific criteria relating to the types and forms of information to be released by the airport. Generally speaking, the airport should speak only to those activities for which they are responsible.
- (4) Refer to Chapter 6, Section 4, Emergency Public Information, for more information.
 - f. Protective Actions.
- (1) The AEP should contain provisions regarding protective action recommendations (evacuation/sheltering) in the event the aircraft incident/accident occurs in such a manner **or** location that it may threaten the health and safety of other personnel on the airport. Of primary

concern is determining who is authorized to make those recommendations.

(2) Refer to Chapter 6, Section 5, Protective Actions, for more information.

g. Law Enforcement.

- (1) Describe the major law enforcement tasks and responsibilities related to responding to an aircraft incident/accident. Planning elements to be discussed include:
- (a) Primary law enforcement agency responsible for, and methods used, to establish site security.
 - (b) Availability of mutual aid support.
- (c) Provisions for establishing traffic control points and access control points to facilitate the movement of emergency response vehicles in and out of the airport/ accident site.
- (d) Method(s) used to identify authorized responders at the accident site (e.g. ID vests, annbands, escort, etc.).

h. Fire and Rescue.

- (1) Describe the major **fire** and rescue tasks and responsibilities related to responding to an aircraft incident/accident Planning elements to be discussed include:
- (a) A description of pre-established access routes to staging areas for each runway.
- (b) Methods used to advise mutual aid emergency response **organizations** of:
 - 1 Accident location.
 - **2** Access routes.
 - 3 Staging area(s)/rendezvous point(s).
 - **4** Additional equipment/man-power.
 - (c) Method used to identify on-scene Command Post.
 - (d) Protection of evidence.

i. Health and Medical.

(1) On-scene.

- (a) The purpose of on-scene medical services is to provide triage, initial medical care, and transportation to health care facilities.
- **(b) It is essential that the AEP** medical plans and procedures:
- $\begin{tabular}{lll} $\underline{1}$ & Are & coordinated & with & and \\ integrated & into & the & local & community & plan(s). \\ \end{tabular}$
- **2** Describe how the designated medical facilities and personnel are notified of the accident.
- **3** To the extent practical, provide for medical services including transportation and medical assistance for the maximum number'of persons that can be carried on the largest air carrier aircraft that the airport reasonably can be expected to serve. The plan should list the type of aircraft and capacity.
- 4 Provide an inventory of personnel and equipment, including contact information, of those rescue squads, ambulance services, military installations, and government agencies on the airport or in the community it serves, that agree to provide medical assistance or transportation.
- **5** Designate a Medical Coordinator who should assume command of emergency medical operations at **the accident site** and whose responsibilities, in coordination with the Medical Transportation Officer, may include:
- a) Verifying that mutual aid medical and ambulance services have been alerted and verify their subsequent arrival at the designated Staging Area.
- **b)** Organizing **the** necessary action for triage and treatment of the casualties and their eventual evacuation to a health care facility.
- c) Arranging for the restocking of medical supplies, if necessary.

- **d)** Providing medical analysis of the walking wounded or traumatized.
- **<u>6</u>** Designate a Medical Transportation Officer whose responsibilities may include:
- **a)** Ensuring that hospitals and medical personnel have been notified of **the** emergency.
- **b)** Directing transportation of casualties to health care facilities suited for the particular **injury**.
- c) Accounting for casualties by recording the victim's name, destination health care facility, and transporting agency.
- **d)** Advising hospitals when casualties are emoute.

(2) Hospitals.

The plan should include:

- (a) The name, location, emergency capacity, and contact information of each hospital and other medical facility on the airport and in the community it serves agreeing to provide medical assistance or transportation,
- (b) The distance of each hospital from the airport and its ability to receive helicopters.
- (c) Where practical, provisions for the hospital(s) to communicate through a central control point to facilitate the distribution of the critically injured.
- **j.** Resource Management. The plan should include provisions for identifying agencies and contractors that could be involved in **aircraft** removal and/or clean-up of any hazardous materials associated **with the** emergency.
- 7-1-10 SOPS AND CHECKLISTS. The following provides some examples of the types of information that may be included in functional SOPs and Checklists.
- a. Before the Emergency. Include routine testing of communications equipment, including EOC telephone lines in the Airport Self-Inspection Checklist.
- b. **During the Emergency. Develop response SOPs** and/or Checklists which outline anticipated actions to be taken by each airport **function**, i.e. Operations, Maintenance, ARFF, Law Enforcement, EMS, tenants, etc.

The following are examples of the types of checklists that may be developed. These examples am not intended to be comprehensive, but only to present a concept. Each airport operator should design checklists suited to their specific organization and situation.

- (1) Airport Operations
 - (a) Proceed to scene.
- (b) Report to Incident Commander. Participate in Unified Command System.
 - (c) Issue appropriate NOTAM
 - (d) Make appropriate notifications.
 - **1** FAA (xxx) 555-1234
 - **2** NTSB (xxx) 555-4321
 - **3** Airport Administration
 - a) Airport Manager

555-5678

b) Maintenance supt.

555-8765

- (e) Through discussions within the Unified Command System, ensure supporting emergency response units have been notified and are responding.
- **(f)** Ensure arrangements have been made for the transportation of the uninjured to the designated holding area.
- (g) Monitor site security and escort operations.
- (h) Provide periodic status updates to the EOC.
- (i) Assess the need for additional airport resources.
 - (2) Law Enforcement
- (a) Send a representative to the scene to **participate** in the -Unified Command system

- (b) Establish site security.
- (c) Activate Traffic Control and Access Control Plan.
 - (d) Activate necessary mutual aid resources.
- (e) Monitor site, security and escort operations.
- **(f)** Assist in the marshaling of emergency response vehicles.
- (g) Assist in any investigations, as necessary.
- (h) Assist, to the extent practical, in the preservation of evidence.
- c. After the Emergency (Recovery). The recovery effort will be dependent upon the severity of the incident, the amount of damage, facilities/equipment systems impacted, and the availability of resources.
- (1) As with other emergencies, consider the formation of a Situation Analysis Team consisting of representatives from appropriate airport organizations, functional areas, tenants, etc. The Team:
- (a) When safe to do so, ensures periodic damage assessments are conducted.
- (b) Prepares an Incident Action Plan to include long and short term considerations for:
- <u>1</u> Final damage assessment (written, pictorial, including video).
 - **2** Public information announce-ments.
 - **3** Facility repair.
 - 4 Supply inventory and restoration.
 - **5** Cost documentation.
 - **6** Economic impact.
 - 7 Documentation of actions taken.
 - **8** Personnel utilization by time on duty.

9 critical Incident stress Debriefing requirements, if **necessary**.

 $\underline{\mathbf{10}}$ Equipment utilization documentation.

11 Overall cleanup activities.

N OTE: Clean up activities for many hazardous materials associated with an **aircraft** incident/accident should be accomplished by approved contractors/organizations.

12 Air Operations Area (AOA) inspections, if appropriate.

- (2) Issue appropriate NOTAMs.
- (3) Critique the overall operation and apply lessons learned to planning and training program.

SECTION 2. BOMB INCIDENTS

- 7-2-1 INTRODUCTION. The history of bomb incidents is such that no report or rumor, however vague, can be ignored. Bach case must be thoroughly investigated in a manner that will safeguard the public and minimize damage if a bomb is actually present.
- a. Jurisdiction. The U.S. Department of Justice has jurisdiction to investigate cases involving airline sabotage, attempted sabotage, or bomb threats. State and local ordinances might also apply.

The assistance the Department of Defense Explosive Ordnance Disposal (EOD) personnel may offer is governed by the Posse Comitatus Act of 1878. This Act prohibits Army personnel from assisting civil authorities in the execution of civil law enforcement. Rendering a bomb harmless does not violate the Posse Comitatus Act; however, searching the area does, because the search can be construed as an act contributing to the enforcement of a law. As a result, EOD personnel can not be expected to assist with this task.

Airports regulated under part 107, Airport Security, will have procedures for responding to bomb threats already specified in their Airport Security Program (ASP). Similarly, air carriers have bomb threat procedures specified in their security plans as required by 14 CFR pan 108. Any bomb threat response procedures should be coordinated with procedures in these FAA approved security plans.

- 7-2-2 PURPOSE. The information contained in this hazard-specific section is intended to supplement the Basic Plan and Functional Section of the Airport Emergency Plan It defines responsibilities and describes actions to be taken in the event a bomb threat or actual incident occurs at the airport. Further, this document, in conjunction with the Basic Plan and Functional Section, forms the basis for elements to be included in functional Standard Operating Procedures (SOPs) and Checklists.
- 7-2-3 SITUATION AND ASSUMPTIONS. Every airport is a potential target for a bomb threat. Threats may be received against the airport, an aircraft, an aircraft owner/operator, or any other agency operating at the airport

- a. Airports regulated under part 107 have established response procedures for bomb threats as specified in their ASP. Air carriers regulated under 14 CFR pan 108 also have established procedures in their FAA approved security program to respond to bomb threats
- b. All bomb threats will be taken seriously until the validity of the threat can be determined.
- c. Describe the location of the designated parking area for the aircraft involved. The designated parking area should be in a remote area, away **from** terminals, hangars, and other public areas.
- d. Describe the availability of Explosive Ordnance Disposal personnel and equipment, to include name, location, and travel time to the airport.
- e. Describe any bomb threat mitigation programs in place, such as facility design features and employee training programs.
- 7-2-4 OPERATIONS. This section should describe actions to be taken if a bomb threat or incident should occur at the airport. This section should:
- (a) Describe the relationship between the AEP and other emergency response plans (e.g. the Federal Bureau of Investigation, and state/local law enforcement, and the airport's ASP, as appropriate) regarding bomb incident response and recovery actions on the airport.
- **(b)** Describe the bomb incident response and recovery actions and procedures of airport personnel.
- (c) List mutual aid agreements, including those with Air Traffic Control.

NOTE: Airports regulated under 14 CFR part 107 have response procedures for bomb threats specified in the Airport Security Program.

7-2-5 ORGANIZATION AND ASSIGN-MENT OF RESPONSIBILITIES. This section should describe organizations, and their responsibilities, that would respond to a bomb incident. The following examples are typically entries in this section:

a. AirTrafficControlTower.

- (1) Provide relevant information and directions to aircraft operators.
- **(2)** Provide necessary air and ground **traffic** control support for emergency response activities.
- **b.** Aircraft Rescue and Fire Fighting (ARFF).
- (1) Upon notification of a bomb threat, ARFF personnel manyehicles and standby in quarters.
- (2) ARFF personnel should restrict the use of two-way radios within 300 feet of any suspected bomb or explosive device.
 - c. Airport Operator.
- (1) Provide notification to appropriate agencies.
- (2) Implement protective actions for the public and employees, when necessary.
- (3) Coordinate response actions with airport tenants, to include the search process and relocation of aircraft, as needed.
 - (4) Activate the EOC, as needed.
- (5) Participate in bomb threat mitigation programs.
- (6) Airport personnel should restrict the use of two-way radios within 300 feet of any suspected bomb or explosive device.
 - d. Law Enforcement.
- (1) Provide overall operational control of the situation
- **(2)** Call in appropriate EOD organization.
- (3) Determine the need for, coordinate, and assist in, the search process.
 - (4) Assess threat credibility.
- (5) Pmvide expert advice and recommendations regarding protective actions,

including the relocation of any aircraft involved.

- (6) Provide crowd and traffic control, as needed.
- (7) Ensure removal of bomb or explosive device.
- (8) Investigate crimes involving bomb **threats** and actual placement of such devices in accordance with level of authority.
- (9) Law enforcement personnel should restrict the use of two-way **radios** within 300 feet of any suspected bomb or explosive device.
 - e. Aircraft Owner/Operator.
- (1) Inform the local law enforcement agency of the **threat** in a timely manner.
- (2) Coordinate with airport operator to determine actions to be taken if an aircraft is involved in the threat, i.e., direct aircraft from terminal building to remote parking location.
- (3) Determine the need to search the aircraft.
 - (4) Assist in the search process.
- (5) Participate in bomb mitigation programs.
- (6) Provide for passenger assistance and services, as needed.
- (7) Aircraft owner personnel **should** restrict the use of two-way radios within 300 feet of any suspected bomb or explosive device.
- **f.** Emergency Medical Services. Provide emergency medical services, as needed.
 - **g.** Other Airport Tenants.
- (1) Assist in the search process, when requested.
- (8) **Participate** in bomb **threat** mitigation Programs.
- h. Employees. Respond and gather data, from bomb threats received; i.e., questions to ask telephone

callers regarding bomb location and detonation time.

7-2-6 ADMINISTRATION AND LOGISTICS.

This section of the document should cover those general support requirements specific to bomb threat incidents. Because of the specialized nature of bomb incident response, specialized resources (e.g. **EOD** services), policies, and procedures would be appropriate.

- 7-2-7 PLAN DEVELOPMENT. This section should identify who is responsible for coordinating revisions of the Bomb Incident Section, keeping its sections current, and ensuring that **SOPs** and Checklists are developed and maintained.
- 7-2-8 AUTHORITIES AND REFERENCES. This section should identify and bomb threat-specific statutes, regulations, **MOUs**, etc. that are applicable,
- 7-2-9 UNIQUE PLANNING CONSID-ERATIONS. This section contains a listing of the functional section that would typically require the preparation a hazard-specific section for bomb incidents. It identifies many of the unique and/or planning considerations that should be identified by the AEP Planning Team.
- a. General. For the most part, the **primary** planning role of the airport operator will be to coordinate the planning, response, and recovery efforts with the Federal, **State**, and local investigative/response authorities.
- b. Direction and Control. For this hazard, law enforcement 'should assume the lead unless otherwise specified in the ASP. As previously stated, the Department of Justice has primary authority for investigating bomb threats against air carriers.
- (1) It is recommended that an ICS be used for on-scene management of response activities. A description of ICS is found in Chapter 6, Section 6-A, Direction and Control.
- (2) Response Actions. Provisions should be made, as appropriate, to describe the onscene management structure and address the following planning considerations in one or mom appendices to a Direction and Control Section:
- (a) Describe the procedures used to identify the validity of the threat.

(b) Describe the ICS to be used at bomb threat incidents on the airport to include:

<u>1</u> Procedures for ensuring that unnecessary personnel at the site are moved away and denied entry.

- 2 Procedures for ensuring that only qualified personnel am involved in the response effort.
- Procedures for ensuring the safe removal of a bomb or explosive device.
 - c Communications.
- (1) Describe methods of communicating during a bomb incident. Communications during a bomb threat may be limited due to the necessary safety precautions to limit twoway radio transmissions within 300 feet of any suspected or actual bomb or explosive device. It is recommended that communications be provided through:
 - (a) Commercial telephone.
- (b) Internal telephone system (e.g. **Crash** Phone).
 - (c) Verbal /written.
- (2) To avoid unnecessary disclosures, it is recommended that some type of code be used in all verbal communications during response operations. Describe the procedures for communicating during this type of incident.
- (a) Because of the unique communications restrictions for this type emergency, it is recommended that an Information Flow Chart be developed to ensure that information gets to where it is needed. Reference Chapter 6, Section 2, Comm unica tions, for additional information.
 - d. Alert and Warning.
- (1) Describe the procedures for notifying response organizations and airport and local officials, as appropriate, that are directly involved in the response. Some type of coded terminology is recommended rather than the use of words such as "bomb threat" in the clear, especially where two-way radios or cellular telephones are involved.

- e. Emergency Public Information. The following planning considerations should be addressed, if appropriate, in one or more appendices to an EPI Section:
- (1) Describing tie methods used, prior to emergencies, for educating airport personnel about potential bomb incidents, to include the procedures to follow if an employee receives, or otherwise becomes aware of, a bomb threat or if a suspicious package or device is encountered.
- (2) Describing the role and organizational position of the airport public relations officer during a bomb incident.

f. Protective Actions.

(1) Evacuation. A key element to remember here is, if the decision is made to evacuate a facility, every effort must be made to announce the request to vacate in such a manner as not to induce panic. And, unlike response to fire alarms where personnel niay evacuate on to the AOA, specific instructions can be given here which will direct personnel to an area that does not present a safety hazard.

7-2-10 SOPS AND CHECKLISTS.

The following provides some examples of the types of information that may be included in functional **SOPs** and Checklists:

a. During 'the Emergency (Response). The degree of response will depend upon the situation, i.e. a threat vs. an actual detonation.

(1) Threat.

(a) A checklist **for a** person receiving a Bomb Threat by **telephone** (**reference** Figure 7-2-1 for an example) or FAA Form 1600-53, Bomb Threat Procedures.

NOTE: When developing the Checklist, check with your local telephone company to determine the availability of services such as Call Trace or Caller ID. Consider including them in the Checklist, as appropriate.

(b) A procedure for a person receiving a threat through personal contact. Instructions to be included are:

- **1** Keep the person who has made or conveyed the threat under surveillance until relieved by airport police.
- Note the number of persons involved, their ages, height, weight, color of eyes, skin, hair, clothing, and any peculiarities.
- Mote the type of vehicle, the model, license number, and any other characteristics if the person(s) leave(s) the scene by any type of ground transportation (taxi, bus, or private car).
- $\underline{\underline{\mathbf{4}}}$ Call the airport police and report all available information.
- (c) A procedure for searching airport facilities (reference Figure 7-2-2 for an example).

(2) Detonation.

- (a) The degree of response will depend upon the location and severity of the explosion.
- (b) Develop response **SOPs** and/or Checklists which outline anticipated actions to be taken by each airport function, such as Operations, Maintenance, Administration, ARFF, Law **Enforcement**, EMS, tenants, etc.

b. After the Emergency (Recovery).

- (1) Threat. If needed, checklists may be developed for return to normal operations (e.g. reopen closed portions of terminal buildings; security sweeps of sterile areas, etc.)
- (2) Detonation. The recovery effort will be dependent upon the severity of the explosion, the amount of damage, facilities/equipment/systems impacted, and the availability of resources. Recovery efforts should involve:
- (a) As with other emergencies, consider the formation of a Situation Analysis Team consisting of representatives from appropriate airport organizations, functional areas, tenants, etc. that:
- (1) Ensures personnel account-ability procedures have been implemented.
- $\hspace{1.5cm} \hbox{(2) Ensures damage assessments are } \\ \hbox{conducted.}$

<u>vii</u> Personnel utilization by time Prepares an Incident Action Plan, to include long and short term considerations for: on duty. Critical Incident damage Stress Final <u>ix</u> assessment (written, pictorial, including video). Debriefing requirements. documentation. Equipment utilization Public information announce-<u>ii</u> ments. cleanup activities. Facility repair. Overall 111 <u>xi</u> inventory Air Operations Area (AOA) <u>iv</u> Supply and <u>xii</u> restoration. inspections. Cost documentation (b) Issuance of appropriate NOTAMs. <u>v</u> (c) Critique of the overall operation Economic impact. <u>vi</u> and apply lessons learned to planning and training <u>vii</u> Documentation of actions programs. taken

FIGURE 7-Z-1. BOMB THREAT CHECKLIST

						EAT CHECKLIS	T
1.	When	is the	bomb	going to	explode?		ALLER'S VOICE
							ALLER 3 VOICE
2.	Where	is	it	right	now?	Calm	Nasal
						Angry Excited	Stutter Lisp
3.	What do	oes it loo	k like?			Slow	Raspy
						Rapid	Deep
4.	What	kind	of	homb	is it?	Soft Loud	Ragged <u>Clear</u> ing throat
7.	W IIat	KIIIG	OI	UUIIIU	15 11:	Loud Laughter	<u>bre</u> Dæephing
						Crying	<u>Cracking</u> voice
5.	What	will	cause	it to	explode?		<u>Disg</u> uised
						Distinct Slurred	Accent <u>F a m</u> i l i a r
6.	Did	you	place	the	bomb?	If the voice is familiar,	
		·	_				
7.	Why?						
<i>'</i> .	wily:					BACI	KGROUND SOUNDS
0	Where	oro	77.044	colling	from?	Cl	Street noises
8.	WHELE	are	you	cannig	1101111	Clear Static	n o Fictory e s
						M usic	Office machinery
a.	What	is		your	address?	Voices	
						House noises	PA system
10.	What	is		your	name?	Other	
FXAC	T WC	RDIN	G OF	THE T	HREAT:	THREAT	LANGUAGE
D/I/IC	71 ,, C) KDII (0 01	TIIL I	IIICE/III.	Foul	S p Wellk e n
						Taped	<u>I n c o</u> h e r e n t
Sev of o	raller*			۸ ۳۵۰	ı	Remarks:	<u>Irrat</u> 10nal
Sex of caller*. Age: Remarks: Race: Length of call:							
Name of Call Recipient:							
Date of Call: Time of Call:							
Location	ı Call F					DIATELY TO THE AIR	
Race: Name of	of Call R	ecipient	Len; : Tir	gth o <u>f</u>	Call:	Taped	

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FIGURE 7-2-2. BOMB THREAT SEARCH PROCEDURES AT AIRPORT BUILDINGS/FACILITIES

I. General

- **A.** The **law enforcement** Officer-in-Charge, after **evaluating** the information received regarding the threat, may determine that a **search of** a general or a specific area may be appropriate.
- B. The best and most effective way to **search** au area is to have it accomplished it by those persons who are most familiar with it, i.e. those who **work there** on a day-today basis. **Therefore**, each airport tenant should be responsible for searching their respective areas; Airport employees should search public areas, i.e. lobbies, restrooms, stairways, elevators, baggage lockers and outside **areas** adjacent to the facility involved.

II. Search Process

If asked to search a specific area, the following steps should be followed:

- A. Begin by dividing the room or area equally among the members of **the search** team.
- **B.** Always work with someone close by at all times.
- **C.** Be alert for instructions on the Public Address System.
- **D.** Do not use two-way radios or cellular telephones within 300 feet of a suspected explosive device.
- **E.** If a suspicious item is found:

In the event a piece of baggage or other suspicious object is found which cannot be identified:

- 1. Report it immediately to your **supervisor** and the airport police.
- 2. Do not touch or move it in any way.
- 3. Do not attempt to cut or disconnect any elect&l wire or connections.
- 4. Do not smoke.
- 5. Do not use ,a two-way radio or cellular telephone.
- 6. Do not stop searching continue until your assigned area has been totally searched

SECTION 3. STRUCTURAL FIRES

7-3-1 INTRODUCTION.

- a. Definition. stmctural fires are **fires** occurring at or in airport buildings such as terminals and **hangars**.
- b. Risk Assessment. A risk assessment should be **prepared** by the **AEP** Planning Team which identifies the facilities, properties, equipment, etc. that may be vulnerable to a **structural fire**. The assessment provides the team with the essential data it needs to determine the type of equipment and other **resources necessary** to effectively respond to the various types of **structures**. The assessment should identity those facilities which may present special response concerns, such as the terminal or cargo buildings.
- 7-3-2 PURPOSE. The information contained in this hazard-specific section is intended to supplement the Basic Plan and Functional Section of the Airport Emergency. Plan It defines responsibilities and describes actions to be taken in the event a stmctural fire. Further, this document, in conjunction with the Basic Plan and Functional Section, forms the basis for elements to be **included** in functional Standard Operating Procedures (SOPs) and Checklists.
- 7-3-3 SITUATION AND ASSUMPTIONS. Assumptions are the advance judgments concerning what might happen in the event of a structural fire at the airport. The situation includes major fmdings from the **Hazard** Analysis and Risk Assessment; identifies facilities that may be impacted; include maps and descriptions of geographic features; sensitive environmental areas, and access routes; pertinent climate and weather factors; and any critical time variables which may impact the emergency **response**, e.g. time of day and month of year.

This section should include information about the airport, including:

- a. A listing of buildings on the airport and their respective **fire** protection system(s), e.g. sprinklers, alarms, etc.
- b. A description of structural fire responsibilities, capabilities, and training of the **airport** ARFF Department.

- **c.** The name(s), location(s), dispatching agency, and approximate response time(s) of **fire** departments tasked with on-airport structural fire support.
- d. A description of the water supply system **including** hydrant locations, supporting structural fire response operations.

7-3-4 OPERATIONS.

- a. General. This section explains the airport's overall approach to structural **fire** emergencies, i.e. what should happen, when and at whose direction. Topics should include:
- (1) Division of airport and local responsibilities, to include roles and relation-ships of emergency response **organizations**.
- (2) A list of mutual aid agreements relative to **structural** fires.
 - (3) Criteria for activation of the EOC.
- (4) A description of sequence of actions before, during and after the emergency situation.
- b. Checklist and **SOPs.** As with other emergencies, emergency-specific **SOPs** and Checklists should be prepared.
- c. Training. Associated **training** pro-grams should be developed and implemented. A brief discussion on related training programs should be provided.
- 7-3-5 ORGANIZATION AND ASSIGN-MENT OF RESPONSIBILITIES. Some examples include:
 - a. Air Traffic Control Tower.
- (1) If involved in fire emergency, inspect FAA owned/operated/maintained facilities for damage and operability.
- **(2)** Provide information and directions to aircraft operators, as appropriate.

- (3) Provide necessary air and ground traffic control **support** for emergency response activities, as necessary.
- (4) Issue appropriate **NOTAM** if requested by authorized airport personnel.

b. Airport Operator.

- (1) Provide notification to appropriate agencies.
- (2) Implement protective actions for the public and employees, when necessary.
- (3) Coordinate response activities with airport tenants and local jurisdictions, as needed.
- (4) Coordinate/provide news releases and other interface with the media, as needed.
 - (5) Activate the EOC, as needed.

c. Fire Department (ARFF/Other).

- (1) Respond to alarms/fires i n accordance established policies and procedures.
- **(2)** Provide Incident Command at fires involving airport structures.
- (3) Determine need to evacuate, or perform other public protective action, for the occupants of any facility impacted by the fire.
- (4) Apply foam to any fire involving fuel, if requested by the Incident Commander.

d. Law Enforcement.

- (1) Provide crowd and traffic control, as needed.
- (2) Provide continued law enforcement and security services on the airport, as needed, including those prescribed in the Airport Security Program required by 14 CFR part 107.
- e. Emergency Medical Services. Provide emergency medical services, as needed.

f. Airport Maintenance.

- (1) Assist/provide critical services, including utility support (activation/cut-off), as needed.
- (2) Provide safety inspections, as needed.
 - (3) Assist in facility restoration.
- **g.** Airport Public Information/Corn-munity Relations
- (1) Interface with the media, as conditions warrant.
- (2) Provide news releases relative to the airport's operational capability.
- (3) Assist with the interface with other airport tenants.
- h. Airport Tenants. Provide assistance on a voluntary basis or in accordance with established agreements.
- 7-3-6 ADMINISTRATION AND LOGISTICS. This section of the document should cover those general support requirements specific to a structure fire on the airport.
- 7-3-7 PLAN DEVELOPMENT. This section should identify who is responsible for coordinating revisions of the Stmctural Fire Section, keeping its sections current, and ensuring that SOPs and Checklists am **developed and** maintained.
- 7-3-8 AUTHORITIES AND REFERENCES. This section should identify any structural **fire**-specific statutes, regulations, etc. **that** address related authority, (e.g. Building Codes, **Fire** Codes). Any documents used as guidance or for information, such as NFPA should be mentioned.
- 7-3-9 UNIQUE PLANNING CONSIDERATIONS. This section contains a listing of **the functional** section that would typically be required in the preparation of a hazard-specific section for structural fires. It also identifies the unique and/or regulatory plauning considerations that should be used by the airport AEP planning team.

a. Direction and Control. Provisions should be made to address the following plauning considerations in one or more appendices to a Direction and Control Section, such as:

- (1) Determine when additional response organizations should be placed on standby or dispatched to the scene.
- (2) Determine the need to activate the Airport Emergency Operations Center (EOC).
- (3) Determine the need to suspend or curtail clay-today **functions** and **services** and focus on emergency response tasks.
- (4) Determine timing for action taking on the following critical concerns:
 - (a) Alert the public.
- (b) Close businesses and terminating operations.
- (c) Evacuate the involved facility, or adjacent facilities, in conjunction with recommendations from the Incident Commander.
- **(5)** Remove trapped and injured **persons** from burning/collapsed **structures**, administering first aid, and assist in transporting the seriously injured to medical facilities.
- (6) Conduct surveys to determine the scope of damage.
- (7) Identify, remove, and dispose of rubble, wreckage, and other material.
- (8) Control access to the involved facility and surrounding area until it has been inspected and determined to be safe aud / or will not impede emergency response operations. Only personnel directly involved in emergency response operations and subsequent investigations should be allowed to enter.
- (9) Cut-off/restore electrical power, natural gas, and water, as necessary.
- (10) Inspect the involved building(s) for safety of occupancy.

(11) Conduct any necessary investigations.

- b. Alert and Warning.
- (1) Describe which emergency response organizations are notified for structural fires and how it is accomplished, to include:
- (a) The existence and location of fue alarm pull boxes. Describe the destination of the alarm signal (e.g. ARFF station, local emergency dispatch, etc.).
- (b) The availability of 9-1-1 capability. Describe the destination of those calls and the method by which the appropriate emergency response organizations are notified (e.g. telephone, pager, siren, radio, etc.).
- (c) If the commercial telephone is used, **identify** the destination of the call, (e.g. **ARFF** station, local emergency dispatch, etc.) and the method by which the appropriate emergency response organizations are notified, including:
- **1** Instructions given to the general public about how to report a fire or request **emergency assistance** (e.g. signs posted on or near the telephones).
- **2** Warnings given to the affected general public and airport employees of a **structural** fire emergency. See **SOPs** and Checklists for an example.
- (d) Notification of the hearing impaired.
- c. Emergency Public Information. This section **addresses provisions** that should be made to prepare and disseminate notifications, updates, and **instructional messages**.

The following planning considerations can be addressed, if appropriate, in one or more appendices to an EPI Section:

- (1) Instructions to the general public for calling for emergency assistance, to include notification of a structural fire.
- (2) Instructions for evacuating a specific airport facility.

- **(3)** Pm-scripted public address system announcements which provide guidance to the public. Reference Chapter 6, Section 4, Emergency Public *Inform* a *tion*, for additional information.
- **d.** Protective Actions. Generally speaking, evacuation is the normal protective action for occupants of a building involved in a structural **fire**.
- (1) Evacuation. In the development of evacuation procedures for airport buildings, the following should be considered:
- (a) The nearest emergency exit may lead to the Air Operations Area (AOA). Consideration must be given to the related safety and security issues.
- (b) State and local Fire Codes may establish **standards** for facility evacuation, to include posting of evacuation route diagrams, drills, etc.
- (c) Reference. Chapter 6, Section 5, Protective Actions, for additional information.
- **7-3-10** SOPS AND CHECKLISTS. The following provides some examples of the types of information that may be included in functional **SOPs** and Checklists:
 - a. Before the Emergency.
- (1) Review applicable laws, regulations, standards, etc.
- **(2)** Establish pie-fire plans for all appropriate airport structures, to include:
- (a) Evaluation of fire suppression capabilities.
- (b) Evaluation of water supplies, fire flow capabilities.
- (c) Establishment of appropriate mutual aid agreements.
- (d) Surveying of hose thread size compatibility and adapt as necessary.

b. During the Emergency (Response). The degree of response will depend upon the severity of the fire. Develop response SOPs and/or Checklists which outline anticipated actions to be taken by each airport function, such as Operations, Maintenance, Administration, ARFF, Law Enforcement, EMS, tenants, etc.

- c. After the Emergency (Recovery). The recovery effort will be dependent upon the severity of the fire, the amount of damage, facilities/equipment/systems impacted, and the availability of resources. Recovery efforts should involve:
- (1) If the situation is serious enough consider the formation of a Situation Analysis Team consisting of representatives from appropriate airport organizations, functional areas, tenants, etc., that:
- (a) When safe to do so, ensures periodic damage assessments are conducted;
- (b) Prepares an Incident Action Plan to include long and short term considerations for:
- **1** Final damage assessment (written, pictorial, including video).
 - **2** Public information announcements.
 - **3** Facility repair.
 - **4** Supply **inventory** and restoration.
 - **5** Cost documentation.
 - **<u>6</u>** Economic impact.
 - 7 Documentation of actions taken.
- $\underline{\pmb{8}}$ Personnel utilization by time on duty.
- **9** Critical Incident Stress Debriefing requirements, if necessary.
- 10 Equipment utilization documentation.
 - 11 Overall cleanup activities.

- (2) Issuance of appropriate NOTAMs.
- (3) Critique of the overall operation and apply lessons learned to platming and training programs.

SECTION 4. NATURAL DISASTERS

HURRICANE

7-4-1 INTRODUCTION. A hurricane is a severe tropical cyclone and sustained winds of 74 miles per hour (mph) or greater that occurs along the Gulf, the east coast, and the west coast (reference Figure **7-4-1**), Hawaii, in the Caribbean, or in the Pacific and along the west coast of Mexico. They may be called something else in other parts of the world. For example, they may be called typhoons in the Mariana Islands and Samoa.

The hurricane season runs from the first of June until the end of November, but a hurricane can happen in any month.

The **Saffir-Simpson** scale is a widely recognized and accepted tool which planners rely on to estimate the forces of hurricanes. It classifies hurricanes into five categories based on wind speed. They are:

Hurricane Category	Wind Speed (mph)
1	74-95
2	96 - 110
3'	111-130
4	131 - 155
5	156+

- a. Risk Area. The airport's AEP Planning Team in the hurricane high-risk states should use the Hurricane Evacuation Technical Data Report, if available. The Team should also use other local information sources such as historical data on other hurricanes and other storms that may have caused loss of life or major damage.
- b. Risk Assessment. A risk assessment should be prepared by the AEP Planning Team which identifies the facilities, properties, equipment, etc. that may be vulnerable to the hazards associated with a hurricane. The assessment provides the team with the essential data it needs to determine the hurricane category for which the airport should prepare. It is important that the team plan for the highest category of hurricane that is likely to strike that particular airport. The assessment should:
- (1) Describe that identifies any part of the airport which may be subject to flooding caused by storm surge. Maps should also be developed depicting this information.

- **(2)** Identify those facilities which may be particularly at risk such as buildings that contain large amounts of exterior glass, e.g. the terminal.
- (3) Identify resources such as essential equipment, tools, vital records, etc. that may need to be moved to a safe location. Include a list of Fixed Base Operators, aircraft owners and operators, hangar owners/tenants, etc.
- (4) Identify essential automation systems and determine Uninterruptible Power Supply (UPS) availability. Determine which system(s) should be routinely backed-up and/or shutdown until the hurricane passes.
- **(5)** Identify any facilities which should be evacuated.
- 7-4-2 PURPOSE. The information contained in this hazard-specific appendix is intended to supplement the Basic Plan and Functional Sections of the Airport Emergency Plan. It defines responsibilities and describes actions to be taken in the event an hurricane occurs. Further, this document, in conjunction with the Basic Plan and Functional Sections, forms the basis for elements to be included in functional Standard Operating Procedures (SOPs) and Checklists.

7-4-3 SITUATION AND ASSUMPTIONS.

Assumptions are the advance judgments concerning what might happen in the event of a hurricane. The situation includes major findings from the Hazard Analysis and Risk Assessment; identifies facilities that may be impacted; include maps and descriptions of geographic features; sensitive environmental areas, and transportation routes; pertinent climate and weather factors; and any critical time variables which may impact the emergency response, e.g. time of day and month of year.

This section should include information about the airport's susceptibility to a hurricane (reference the Hazards Analysis Program) including:

a. The impact of such an event on the community as a whole, particularly in terms of overall impact on response and recovery resource availability, i.e. a major hurricane will impact a wide geographic area • off-airport resource accessibility may be

extremely limited and should be planned for accordingly.

- **b.** A review of airport access. Determine the vulnerability of access roads and bridges to flooding and what the impact would be if some or all of them were rendered impassable.
- c. A review of airport structures. Describe those airport structures which have been certified as capable of withstanding the wind loads specified by the American Society of Civil Engineers or the American National Standards Institute guidelines; describe which structures am susceptible to wind damage and/or flooding.
- d. A review of airport utilities. Describe the type of utilities along with their respective susceptibility to wind and/or flooding damage; which serve key facilities and what is the availability of alternative sources (e.g. power generators, communications RACES, etc.).
- e. A review of worse case scenarios. What would the impact be if the effects of a hurricane should occur before non-essential airport personnel can be sent home or you have a terminal full of transients.
- f. A review of communications capabilities. Many systems will be rendered inoperable during and after a hurricane. Systems which rely on hard wires or antenna to antenna for operation, such as cellular phone services and two-way radio repeaters **cannot** be relied upon.

7-4-4 OPERATIONS.

- **a. General. This** section explains the airport's overall approach to the emergency situation, **i.e.** what should happen, when, and at whose direction. Topics should include:
- (1) Division of airport and local responsibilities, to include roles and relationships of emergency response organizations.
- (2) A list of mutual aid agreements relative to the specific emergency.
 - (3) Criteria for activation of the EOC.
 - (4) A description of the sequence of

actions before, during and after the emergency situation.

- **b.** Checklist and SOPs. As with other emergencies, emergency-specific SOPs and Checklists should be prepared.
- c. **Training.** Associated training programs should be developed and implemented. A brief discussion on related training programs should be provided.

7-4-5 ORGANIZATION AND @SIGN-MENT OF RESPONSIBILITIES. Some examples include:

- a. Air **Traffic** Control Tower. As specified in the letter of agreement:
- (1) Inspect FAA owned/operated/maintained facilities for damage and operability.
- (2) Restrict aircraft operations on the airport until the runway(s), taxiways, and ramps have been inspected by the airport owner/ operator.
- (3) Issue appropriate Notice to Airmen (NOTAM) upon receipt of information from authorized airport personnel, if requested.

b. Aircraft Rescue and Fire Fighting (ARFF).

- **(1)** Conduct fire. suppression and rescue operations, as needed.
- **(2)** Assist in providing emergency medical assistance, as needed.
- (3) Check for petroleum leaks and other potential HAZMAT problems.
 - (4) Survey ARFF property, to:
 - (a) Determine integrity of building(s).
- **(b)** Assess status of gas, electricity, water, and sanitation;
 - (c) Test telephones.
 - (d) Test apparatus radios.
 - (e) Test station radios.

- **(f)** Test alerting system(s).
- (5) Assist in support operations, to include search inspections, personnel account-ability, and protective action implementation.
- **(6)** Review personnel requirements and adjust accordingly.
- (7) To the degree communications systems will permit, coordinate activities with local community fire departments, if necessary.
- (8) Participate in Incident Command/ Unified Command System in accordance with preestablished protocols.

c. Law Enforcement.

- (1) Provide for overall **traffic** control in support of evacuation operations, as needed.
- **(2)** Provide continued law enforcement and security services on the airport, as needed, including those required by 14 CFR Part 107, **Airport Security.**
- (3) Survey law enforcement property, to:
 - (a) Determine integrity of building.
- (b) Assess gas, electricity, water, and sanitation.
 - (c) Test telephones.
 - (d) Test apparatus radios.
 - (e) Test station radios.
 - **(f)** Test alerting system(s).
- (4) Assist in support operations, to include search, inspections, personnel accountability, and protective action implementation.
- (5) Review personnel requirements and adjust accordingly.
- **(6)** To the degree communications systems will permit, coordinate activities with local community law enforcement agencies, if necessary.

(7) Participate in Incident Command/ Unified Command System in accordance with preestablished protocols.

d. Emergency Medical Services.

- (1) Organize the necessary action for triage and treatment of any casualties.
- (2) Provide for the transportation (air, land, or water) of casualties to designated medical facilities.

NOTE: Ensure medical facilities are capable of handling casualties - those facilities may have also been damaged).

- (3) Survey EMS **property**, to:
 - (a) Determine integrity of building.
- (b) Assess gas, electricity, water, and sanitation.
 - (c) Test telephones.
 - (d) Test apparatus radios.
 - (e) Test station radios.
 - **(f)** Test alerting system(s).
- (4) Assist in support operations, to include search inspections, personnel account-ability, and protective action implementation.
- **(5)** Review **personnel** requirements and adjust accordingly.
- **(6)** To the degree communications systems will permit, coordinate activities with local community EMS units, if necessary.
- (7) Maintain an accurate list of the casualties to include names and addresses.
- **(8)** Provide medical analysis of walking wounded or traumatized.
- **(9)** Provide for the restocking of medical supplies, as needed.
- **(10)** Provide Critical Incident Stress Disorder support, as appropriate.

(11) Participate in Incident Command/Unified Command System in accordance with pre-established protocols.

e. Airport Operator.

(1) Operations.

- (a) Conduct airfield inspections, as needed.
- (b) Issue appropriate NOTAM(s), if conditions warrant and permit.
- (c) Activate the Airport Emergency Operations Center (EOC), as appropriate.
- $\begin{tabular}{ll} (d) & Provide emergency support services \\ through the EOC. \end{tabular}$
- (e) Assist in' support operations, to include search, inspections, personnel accountability, and protective action implementation.
- **(f)** Review personnel requirements and adjust accordingly.
- **(g)** To the degree communications systems will **permit**, coordinate activities with local community emergency management agencies, if necessary.
- (h) Coordinate activities with the ATCT, as needed.
- (i) Interface with, coordinate, and utilize as needed, the resources made available by other airport tenants, including air carriers.
- **(j)** Participate in Incident Command/Unified Command System in accordance with pre-established protocols.

(2) Maintenance.

- (a) Assist/provide critical services, including utility support (activation/cut-off), as needed.
- **(b)** Provide safety inspections, as needed.
 - (c) Assist in facility restoration.

- (d) Provide sanitation support services.
- $\begin{tabular}{ll} (e) & Assist in the provision of required resources. \end{tabular}$
 - (f) Participate in EOC operations.
- **(g)** Participate in Incident Command/Unified Command System in accordance with pre-established protocols.

(3) Administration.

- (a) Provide procurement services.
- **(b)** Provide appropriate budgeting, payment, and cost recovery authorization and services.
 - (c) Provide personnel services.
 - (d) Participate in EOC operations

(4) Public Information/Community Relations.

- (a) Interface with the media, as conditions warrant.
- **(b)** Provide news releases relative to the airport's operational capability.
- (c) Assist with the interface with other airport tenants.
 - (d) Participate in EOC activities.

f. Ah-craft Owners/Operators.

- Provide EOC representation, as needed.
- **(2)** Provide for the initial notification to **families** of casualties.
- (3) Provide for passenger casualty tracking.
- (4) Inspect tenant owned, operated, or maintained facilities for damage and operability.

g. Airport Tenants.

- (1) Provide assistance on a voluntary basis or in accordance with established agreements.
- **(2)** Participate in Incident Command/Unified Command System in accordance with pre-established protocols.
- (3) Inspect tenant owned, operated, or maintained facilities for damage and operability.

7-4-6 ADMINISTRATION AND LOGISTICS.

This section of the document should cover those general support requirements specific to a hurricane. Because of the unique nature of this type emergency and its potential for involving a wide geographic area and potentially limiting the availability of resources, there may be a need for adjusting standard policies and procedures for items such as resource management and mutual aid.

7-4-7 PLAN DEVELOPMENT. This section should identify who is responsible for coordinating revisions of the Hurricane Appendix, keeping its attachments current, and ensuring that **SOPs** and Checklists **are** developed and maintained.

7-4-8 AUTHORITIES AND REFERENCES.

This section should identity any hurricane-specific statutes, regulations, etc. that address related authority, (e.g. Building Codes). Any documents used as guidance or for information, such as FEMA or the American Red Cross should be mentioned.

- **7-4-9 UNIQUE PLANNING CONSIDER- ATIONS.** This section contains a listing of the functional sections that would typically be required in the preparation of a hazard-specific appendix for hurricanes. It also identifies the unique and/or regulatory planning considerations that should be used by the airport AEP **planning** team.
- a. General Response Schedule. A Hurricane Response Schedule may be developed and used to describe emergency response actions for hurricane response. The schedule establishes phases for the approaching hurricane, describes the activities to be completed during each phase, and establishes some priorities for actions to be taken. Each phase covers a specified period of time and details the actions that should be included in the phase.

Usually, phases correspond to hours before the

estimated time of arrival of high winds, immediate response actions after. landfall of hurricane force winds, through termination of all response activities. Typical phases include:

- (1) Awareness. 60-72 hours before the arrival of gale force winds (32-63 mph).
- **(2) Standby.** 48-60 hours before the arrival of gale force winds. It is likely that a tropical storm watch would be issued during this period.
- Response. 48 hours before the arrival of gale force winds through termination of the emergency. Hurricane watches and warnings would be issued by the NWS during this period.
 - **b. Actions.** Each phase in the schedule:
- (1) Describes actions to be taken in the phase.
- (2) Identifies the official responsible for the action.
- (3) Defines the hours needed before arrival of gale force winds to **carry** out the activity.
- (4) Describes the priority of the action to be taken.
- (5) Contains other critical information that is needed by tasked organizations to complete assigned responsibilities.
- c. **Direction and Control.** Actions to be taken can begin before the awareness phase when it appears likely that a specific storm could threaten the airport. Therefore, provisions should be made to address the following planning considerations in one or **more** appendices to a Direction and Control Section:
- (1) Determine when response organizations should:
- (a) Be placed on standby, partial activation, or full activation.
- **(b)** Activate the Emergency Operations Center (EOC).
- (c) Suspend or curtail day-to-day functions and services and focus on emergency response tasks. This should include discussing with

the air carriers modifications to flight schedules in order to minimize the number of transient passengers who might be stranded at the airport.

- (2) Ensure response organizations can continue to perform assigned operational tasks throughout all three phases (e.g. maintain airport security, disperse or relocate operations centers, vehicles, equipment, vital records, and other essential resources).
- **(3)** Determine timing for action taking on the following critical concerns:
 - (a) Alerting the public.
- (\mathfrak{b}) Closing businesses and terminating operations.
- (c) Evacuating the facility in conjunction with recommendations from the local emergency management agency.
- (4) Assign **specific** tasking to each response organization for each phase. Some critical concerns include:
 - (a) Decision for and timing to:
- <u>1</u> Initiate coordination and implement mutual aid agreements with off-airport emergency response agencies.
- 2 Suspend non-essential operations and services.
- **3** Release non-essential employees from work.
- $\begin{tabular}{ll} \textbf{(b)} & Reporting & status/observations & to & the \\ EOC. \end{tabular}$
- (5) Search and Rescue/Fire Suppression. Removal of trapped and injured persons from collapsed structures, administering first aid, fire suppression, and assisting in transporting the seriously injured to medical facilities. This activity involves the use of both professional and volunteer personnel, including the use of search and rescue dog teams. Normally, this is a function of the ARFF/Fire/EMS Department(s).
- **(6) Damage Assessment.** Conduct of ground and aerial surveys to determine the scope of damage, casualties, and status of key facilities. This

effort, which is typically a function of Airport Maintenance/Facilities/ Engineering personnel with assistance from ARFF/Fire/EMS Departments, is intended to determine the overall safety status of the airport and to ultimately be the basis for the development of the recovery program.

- (7) **Debris Clearance.** The identification, removal, and disposal of rubble, wreckage, and other material which block or hamper the performance of emergency response activities should be given a high priority. Some of these activities include:
- (a) Demolition and other clearance activities.
- **(b)** Repair or temporary reinforcement of key buildings roads, and bridges.
- (c) **Construction** of emergency facilities and roadways. This effort is typically guided: by Airport Maintenance/Facilities/ Engineering personnel.
- **(8)** Access Control. Immediate actions to be taken, as soon as conditions permit, to:
- (a) Control access to an area until it has been inspected and determined to be safe. Only personnel directly involved in emergency response operations should be allowed to enter. This involves the entire airport, not just the AOA.
- (b) Establish guidelines for determining when the public and employees will be allowed to reenter the area This is normally a function of airport law enforcement personnel.
- (9) Utilities and Lifeline Repairs. Restoration and repair of electrical power, natural gas, water, sewer, and all communications systems to minimize the impact on critical services.
- **(10)** Inspection, Condemnation, and Demolition. Inspections of buildings and other structures to determine to inhabit or use them after a hurricane has occurred. Some activities may include:
- (a) Inspection of buildings and structures which are critical to airport operations (e.g. terminal, tower, fueling systems, etc.). Designate those which may be occupied and identify those which are unsafe.

- **(b)** Inspection of buildings **and** structures which may threaten public safety. Identity those that are unsafe and may not be occupied.
- (c) Inspection of all other facilities and structures. Designate those which may be occupied and identity those which are unsafe.
- (d) Arrangements for the demolition of condemned **structures**.
- d. Alert and Warning. Hurricanes are typically slow moving so sufficient warning time is normally available to allow those people at risk to evacuate. It should also allow time for the air carriers to adjust their operations in order to minimize disruption to schedules and damage to equipment.

The following provisions for notifying the public should be addressed, as appropriate, in one or more appendices to an Alert and Warning Section:

- (1) Roles and responsibilities of airport spokespersons during each phase.
- (2) Coordination with the local emergency management agency Public Information representatives to ensure timely and consistent warning information is provided.
- e. Emergency Public Information. This section addresses provisions that should be made to prepare and disseminate notifications, updates, and instructional messages. While many of the businesses operating on the airport can and will receive emergency information regarding the weather through the local media, there may be a need to inform the transient population on the airport.

The following planning considerations can be addressed if appropriate, in one or more appendices to an EPI Section:

- (1) Instructions for preparing businesses (inside and outside) to weather the storm.
- (2) Hurricane-specific survival tips for those who choose not to evacuate (e.g. a reminder that the eye of the hurricane is not the end of the storm).
- hurricane-specific provisions for evacuation of the facility (e.g. where they are to go, when to leave, and how to get there).

f. Protective Actions. Usually, there should be enough lead time to minimize the number of people at the airport who may be impacted by a hurricane. The air carrier schedules should have been adjusted sufficiently to avoid having large numbers of passengers in the terminal building. From a planning perspective, however, it is always prudent to prepare for the worse case scenario. In this instance, the airport may have to provide for a significant number of stranded transient and/or non-essential airport personnel. As with other emergency situations, there are two basic protective actions: 1) evacuate, or 2) **shelter-in-place**. It is usually best to remove people from harms way, and then only after determining that the evacuation process itself will not be more hazardous than not evacuating. Reference Chapter 6, Section 5, Protective Actions, for more information.

Considering the geographic area involved with a hurricane, however, evacuation is not always practical. The airport may, determine that it may be best to relocate stranded passengers to a designated shelter.

- **(1) Evacuation.** In the development of airport evacuation procedures, consideration should be given to:
- (a) The local emergency management agency **role** and responsibilities.
- **(b)** Number of people requiring transportation.
 - (c) Availability of transportation.
- (d) Susceptibility of local roads to flooding.
- (e) Clearance times needed to conduct a safe and timely evacuation under various hurricane threats. Consider the following complications that could impede or delay the evacuation process:
- **1** Heavy rains and localized flooding may slow traffic movement.
- **2** Stranded transient personnel may have no transportation.
- Airport businesses that may need time to close (e.g. some manufacturing firms have lengthy shut down procedures.

(2) Sheltering, In the development of airport sheltering procedures, ensure the following safety considerations are in place.

- (a) Facilities designated for use are located outside of the Category 4 storm surge inundation zone.
- **(b)** Facilities are located outside of the 100 or 500 year floodplain, as deemed appropriate.
- (c) Facilities designated as a shelter has been certified as capable of withstanding the wind loads specified by the American Society of Civil Engineers or the American National Standards Institute guidelines. If it is necessary to use uncertified facilities, ensure that a structural engineer knowledgeable of the criteria contained in the guidelines cited, identifies and ranks the facilities that offer the best protection available.
- **g.** Resource Management. The following planning considerations should be addressed, if appropriate, in one or more appendices to a resource management section:
- (1) Provisions for purchasing, stockpiling, or otherwise obtaining essential hurricane response items, such as ice machines, water purification systems, polyethylene sheeting, sand bags, fill, pumps (of the right size and type, with necessary fuel, etc.), generators, light sets, etc.
- (2) Resource lists hat identify the quantity and location of the items mentioned above, as well as points of contact (day, **night**, and weekend) for obtaining them.
- **7-4-10 SOPS AND CHECKLISTS. The** following provides some examples of the types of information that may be included in functional **SOPs** and Checklists:

a. Before the Emergency.

- (1) A facility inspection SOP that is specific to high winds and/or abnormal rainfall situations. This is a document that can be used by airport employees as a preliminary inspection process for evaluating facility safety for public use following a hurricane until it can be inspected by qualified engineers, if deemed necessary.
- (2) A checklist of pre-storm actions, such as:

(a) Inspecting storm drains for obstructions.

- (b) Looking for loose objects which might cause damage in heavy winds.
- (c) Implementation of special fastening or tie down methods for equipment.
- (d) Inspecting airport facilities which meet the construction criteria described earlier and may be used as shelters.
 - (e) Applying special protection to glass.
- **(f)** Ensuring all aircraft have relocated or **are** securely tied down
 - (g) Testing emergency generators.
- **(h)** Inventory of resources, including any special supply storage lockers which may be in place.
- (i) Providing of any hurricane-specific training programs, drills, and exercises.
- b. During the Emergency (Response). The degree of response will depend upon the severity of the hurricane. Develop response SOPs and / or Checklists which outline anticipated actions to be taken by each airport function, such as Operations, Maintenance, Administration, ARFF, Law Enforcement, EMS, tenants, etc.

c. After the Emergency (Recovery).

The recovery effort will be dependent upon the severity of the hurricane, the amount of damage, facilities, equipment, or systems impacted, and the availability of resources. Recovery efforts should involve:

- (1) As with other emergencies, the formation of a Situation Analysis Team consisting of representatives from appropriate airport organizations, functional areas, tenants, etc., that:
- (a) When safe to do so, ensures periodic damage assessments are conducted.
- (b) Prepares an Incident Action Plan to include long and short term considerations for.

1 Final damage assessment (written, pictorial, including video).

- 2 Public information ments.
 - **3** Facility repair.
 - Supply inventory and restoration.
 - Cost documentation.
 - Economic impact.
 - **7** Documentation of actions taken.
 - Personnel utilization by time on

announce-

9 Critical Incident Stress Debriefing requirements, if necessary.

<u>10</u> Equipment utilization documentation.

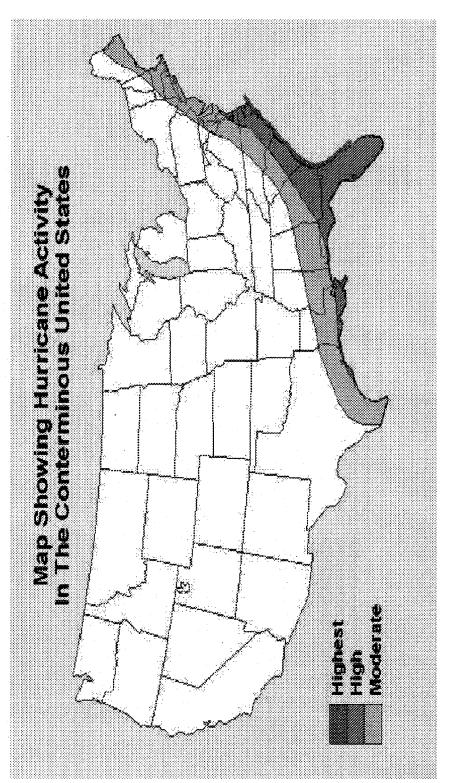
> Overall cleanup activities. 11

12 Air Operations Area (AOA) inspections.

- (2) Issuance of appropriate NOTAMs.
- (3) Critique of the overall operation and apply lessons learned to planning and training programs.

duty.

FIGURE 7-4-1. AREAS AFFECTED BY STRONG TROPICAL STORMS



Source: United States Geological Survey (USGS)

EARTHQUAKE

7-4- 11 INTRODUCTION.

a. Definitions.

- (1) Earthquake. A sudden, violent shaking or movement of. part of the earth's surface caused by the abrupt displacement of rock masses, usually with the upper 10 to 20 miles of the earth's surface. This hazard may consist of:
- (a) Ground motion: Vibration and shaking of the ground during an earthquake causes the most damage to buildings, structures, infrastmeture, etc.
- **(b)** Ground surface fault rupture: The ground shaking is the result of a rupture of a fault beneath the surface which may result in a surface opening of up to 20 feet.
- (c) Liquefaction: The ground temporarily loses it strength and behaves as a viscous fluid (similar to quicksand) rather than a solid,
- (d) **Tsunamis:** Tsunamis are ocean waves produced by an underwater earthquake. These waves can reach 80 feet and can devastate coastal cities and low-lying areas.
- **(2)** Secondary hazards: Additional consequences of an earthquake may include fire, hazardous materials release, landslides, and/or dam failures.
- (3) Seismic Intensity: Seismic intensity is the felt effect of an earthquake at a particular location. The 'various effects on buildings, furnishings, etc. at a given location are subjective and are usually expressed with a numerical value. The Modified Mercalli Intensity Scale may be found at Figure 7-4-3.
- b. Risk Area: Thirty nine States face the threat of a major damaging earthquake and are considered to be earthquake hazard areas (reference Figure 7-4-2). The airport's AEP planning team should use information from their State's earthquake hazard identification study to quantify the seismic hazard their airport/community faces. This may be done as a part of your Hazards Analysis Program.
- **c. Ris**: **Assessment:** A risk assessment should be prepared by the AEP Planning Team which identifies the facilities, properties, equipment, etc. that

may be vulnerable to an earthquake. It is important that the team plan for the worst earthquake scenario. The assessment should include a narrative description that identifies those airport facilities that may be more susceptible to earthquake damage.

7-4-12 PURPOSE. The information contained in this hazard-specific appendix is intended to supplement the Basic Plan and Functional Sections of the Airport Emergency Plan. It defines responsibilities and describes actions to be taken in the event an earthquake occurs. Further, this document, in conjunction with the Basic Plan and Functional Sections, forms the basis for elements to be included in functional Standard Operating Procedures (SOPs) and Checklists.

7-4-13 SITUATION AND ASSUMPTIONS.

Assumptions are the advance judgments concerning what might happen in the event of an earthquake at the airport. The situation includes major findings from the hazard analysis; identifies facilities that may be impacted; includes maps and descriptions of geographic features such as fault lines; sensitive environmental areas, and transportation routes; pertinent climate and weather factors; and any critical time variables which may impact the emergency response, (e.g. time of day and month of year.)

This section should include information about your airport as it relates to such issues as:

- a. The airport's susceptibility to an earthquake event, such as proximity to-a fault line (reference the Hazards Analysis Program).
- b. The impact of such an event on the community as a whole, particularly in terms of **overall** impact on response and recovery resource availability, i.e. a major earthquake will impact a wide geographic area off-airport resource accessibility may be extremely limited and should be planned for accordingly.
- c. The vulnerability of access roads and bridges to earthquake damage and what would be the impact if some or all of them were rendered unusable.
- **d.** Airport structures which have earthquake resistant construction.
- e. Airport utilities that serve key facilities and the availability of alternative sources (e.g. power generators, communications RACES, etc.).

f. Worst case scenarios: i.e., What is the impact if an earthquake should occur during your airport's peak period?- What if it occurred in the middle of the night?

g. Communications capabilities that may be rendered inoperable during and after an earthquake. Systems which rely on hard wires or **antenna** to antenna for operation, such as cellular phone services and two-way radio repeaters cannot be relied upon.

7-4-14 OPERATIONS.

- **a. General.** This section explains the airport's overall approach to the emergency situation, i.e. what should happen, when, and at whose direction. Topics should include:
- (1) Division of airport and local responsibilities, to include roles and relation-ships of emergency response organizations.
- **(2)** Mutual aid agreements relative to the specific emergency.
 - (3) Criteria for activation of the EOC.
- (4) Sequence of actions before, during and after the emergency situation Obviously, for this type event, almost all activities will be after the event.
- b. Checklists and SOPs. As with other emergencies, emergency-specific SOPs and Checklists should be prepared.
- **h. Training.** Associated training programs should be developed and implemented. A brief discussion on related training programs should be provided.

7-4-15 **ORGANIZATION AND ASSIGNMENT OF RESPONSIBILITIES.** Some examples include:

- a. Air **Traffic** Control Tower. In accordance with the letter of agreement:
- (1) Inspect FAA owned, operated, or maintained facilities for damage and operability.
- Restrict aircraft operations on the airport until the **nunway(s)**, taxiways, and **ramps** have been inspected by the airport owner/ operator.
- (NOTAM) Issue appropriate Notice to Airmen (NOTAM) upon receipt of information from

1

authorized airport personnel, if requested.

b. Aircraft Rescue and Fire Fighting (ARFF).

- **(1)** Move equipment outside.
- **(2)** Conduct fire suppression and rescue operations, as needed.
- **(3)** Assist in providing emergency medical assistance, as needed.
- other potential hazardous materials problems.
 - (5) Survey ARFF property, to:
 - (a) Determine integrity of building.
- **(b)** Determine status of gas, electricity, water, and samtation.
 - (c) Test telephones.
 - **(d)** Test apparatus radios.
 - (e) Test station radios.
 - **(f)** Test alerting system(s).
- **(6)** Assist in support operations, to include search, inspections, personnel accountability, and protective action implementation.
- **(7)** Review personnel requirements and adjust accordingly.
- (8) To the degree communications systems will permit, coordinate activities with local community fire departments, if necessary.
- **(9)** Participate in Incident **Command/ Unified** Command System in accordance with pmestablished protocols.

c. Law Enforcement.

- as soon as possible.
- Provide for overall traffic control, including coordination with mutual aid law enforcement agencies.

- (3) Provide continued law enforcement and security services on the airport, as needed, including those required by 14 CFRE part 107, *Airport Security*.
- (4) Survey law enforcement property, to:
 - (a) Determine integrity of building.
- (b) Determine status of gas, electricity, water, and sanitation.
 - (c) Test telephones.
 - (d) Test apparatus radios.
 - (e) Test station radios.
 - **(f)** Test alerting system(s).
- (5) Assist in support operations, to include search, inspections, personnel accountability, and protective action implementation.
- **(6)** Review personnel requirements and adjust accordingly.
- (7) To the degree communications systems will permit, coordinate activities with local community law enforcement agencies, if necessary.
- (8) Participate in Incident Command/ Unified Command System in accordance with **pre**established protocols.

d. Emergency Medical Service.

- (1) Move equipment outside.
- (2) Organize the necessary action for triage and treatment of the casualties.
- (3) Provide for the transportation (air, land, or water) of casualties to designated medical facilities.

NOTE: Ensure medical facilities are capable of handling casualties since those facilities may have also been damaged.

- (4) Survey EMS property, to:
 - (a) Determine integrity of building.

- (b) Determine status of gas, electricity, water, and sanitation.
 - (c) Test telephones.
 - (d) Test apparatus radios.
 - (e) Test station radios.
 - **(f)** Test alerting system(s).
- (5) Assist in support operations, to include search, inspections, personnel accountability, and protective action implementation.
- **(6)** Review personnel requirements and adjust accordingly.
- (7) To the degree communications systems will permit, coordinate activities with local community EMS units, if necessary.
- (8) Maintain an accurate list of the. casualties to include names and addresses.
- **(9)** Provide medical analysis of walking wounded or traumatized.
- **(10)** Provide for the restocking of medical supplies, as needed.
- **(11)** Provide Critical Incident Stress Disorder support, as appropriate.
- (12) Participate in Incident Command/ Unified Command System in accordance with pmestablished protocols.

e. Airport Operator.

(1) Operations.

- (a) Conduct airfield inspections, as needed.
- **(b)** Issue appropriate NOTAM(s), if conditions warrant and permit.
- (c) Activate the Airport Emergency Operations Center (EOC), as appropriate.
- $\begin{tabular}{ll} (d) & Provide \ emergency \ support \ services \\ through \ the \ EOC. \end{tabular}$

- (e) Assist in support operations, to include search, inspections, personnel account-ability, and protective action implementation.
- **(f)** Review personnel requirements and adjust accordingly.
- **(g)** To the degree communications systems will permit, coordinate activities with local community emergency management agencies, if necessary.
- (h) Coordinate activities with the ATCT, as needed.
- (i) Interface with, coordinate, and utilize as needed, the resources made available by other airport tenants, including air carriers.
- **(j)** Participate in Incident Command/Unified Command System in accordance with pre-established protocols.

(2) Maintenance.

- (a) Assist/provide critical services, including utility support (activation/cut-off), as needed.
- (\mathbf{b}) Provide safety inspections, as needed.
- (c) Assist in facility restoration, including debris removal.
 - (d) Provide sanitation support services.
- $\begin{tabular}{ll} \begin{tabular}{ll} \beg$
 - **(f)** Participate in EOC operations.
- **(g)** Participate in Incident Command/Unified Command System in accordance with pre-established protocols.

(3) Admiiistration.

- (a) Provide procurement services.
- **(b)** Provide appropriate budgeting, payment, and cost recovery authorization and services.
 - (c) Provide personnel services.

(d) Participate in EOC operations.

(4) **Public Information/Community** Relations.

- (a) Interface with the media, as conditions warrant.
- **(b)** Provide news releases relative to the airport's operational capability.
- (c) Assist with the interface with other airport tenants.
 - (d) Participate in EOC activities.

(5) Aircraft Owners/Operators.

- (a) Provide EOC representation, as needed.
- (b) Provide for the initial notification to families of casualties, if appropriate.
- (c) Provide for passenger casualty tracking.
- **(d)** Inspect facilities owned/operated or maintained by these tenants.

(6) Airport Tenants.

- (a) Provide assistance on a voluntary basis or in accordance with established agreements.
- **(b)** Participate in Incident **Command/Unified** Command System in accordance with pre-established protocols.
- **(c)** Inspect facilities owned/operated or maintained by these tenants.

7-4- 16 ADMINISTRATION AND LOGISTICS.

This section of the document should cover those general support requirements specific to an earthquake. Because of the unique nature of this type emergency and its potential for involving a wide geographic area and potentially limiting the availability of resources, there may be a need for adjusting standard policies and procedures for items such as resource management and mutual aid.

7-4-17 PLAN DEVELOPMENT. This section should identify who is responsible for coordinating revisions of the Earthquake Appendix, keeping its attachments current, and ensuring that SOPs and Checklists are developed and maintained.

7-4- 18 AUTHORITIES AND REFERENCES.

This section should identify any earthquake-specific statutes, regulations, etc. that address related authority, (e.g. Building Codes). Any documents used as guidance or for information, such as FEMA or the American Red Cross should be mentioned.

7-4-19 UNIQUE PLANNING CONSIDER- ATIONS. This section contains a listing of the functional sections that would typically be required in the preparation of a hazard-specific appendix for earthquakes. It also identifies the unique and/or regulatory planning considerations that should be used by the airport AEP planning team.

- a. Direction and Control. For the earthquake hazard, it is essential for airport personnel to take immediate action to gather damage assessment information. Due to the multi-faceted nature of the response and recovery efforts required for response to an earthquake, a Unified Command System is recommended. Provisions should be made, as necessary, to address the following planning considerations in one or more appendices to a Direction and Control Section:
- (a) Search and Rescue/Fire **Suppression:** Remove trapped and injured persons from collapsed structures. Administer first aid, fire suppression, and assist in transporting the seriously injured to medical facilities. This activity involves the use of both professional and volunteer personnel, including the use of search and rescue dog teams. It is likely that in the event of a major earthquake, particularly. in a metropolitan area, requests for emergency services would overwhelm the local capabilities. In order to assist the state and local governments in critical lifesaving activity, the Federal Government has established Federal US&R teams which can help efforts to locate, extract, and provide for the immediate medical treatment of victims trapped in collapsed structures. Normally, this is a function of the ARFF/Fire/EMS Department(s).
- **(b) Damage Assessment:** Conduct ground and aerial surveys to determine the scope of damage, casualties, and status of key facilities. This effort, which is typically a function of Airport Maintenance/Facilities/ Engineering personnel with

assistance from ARFF/Fire/EMS Departments, is intended to determine the overall safety status of the airport and to ultimately be the basis for the development of the recovery program.

- (c) Debris Clearance: The identification, removal, and disposal of rubble, wreckage, and other material which block or hamper the performance of emergency response activities should be given a high priority. Some of these activities include:
- **1** Demolition and other clearance activities.
- **2** Repair or temporary reinforcement of key buildings roads, and bridges.
- **3** Construction of emergency facilities and roadways. This effort is typically guided by Airport Maintenance/Facilities/ Engineering personnel.
- (d) Access Control: Immediate actions to be taken, as soon as conditions permit, to:
- **1** Control access to an area until it has been inspected and determined to be safe. Only personnel directly involved in emergency response operations should be allowed to enter. This involves the entire airport, not just the AOA.
- **2** Establish guidelines for determining when the public and employees will be allowed to reenter the area. This is normally a function of airport law enforcement personnel.
- **(e) Utilities Repair:** Restoration and repair of electrical power, natural gas, water, sewer, and all communications systems to minimize the impact on critical services.
- **(f)** Inspection, Condemnation, and Demolition: Inspections of buildings and other structures to determine to inhabit or use them after an earthquake has occurred. Some activities may include:
- <u>1</u> Inspection of buildings and structures which are critical to airport operations (e.g. terminal, tower, fueling systems, etc.). Designate those which may be occupied and identify those which are unsafe.

- **2** Inspection of buildings and structures which may threaten public safety. Identify those that are unsafe and may not be occupied.
- **3** Inspection of all other facilities and structures. Designate those which may be occupied and identify those which are unsafe.
- $\underline{\underline{\textbf{4}}}$ Arrangements for the demolition of condemned structures.
- b. **Alert and Warning.** Earthquakes normally occur with no warning. While some have been predicted, there is no reliable warning system. This must be taken into consideration during planning.
- c. Emergency Public Information. The flow of accurate and timely information is critical to the protection of lives and property following a catastrophic earthquake. This section should deal with updates, warnings and instructional messages to those personnel at the airport. Planning consideration should be given to:
- (1) The development of airport-specific public information brochures for airport employees describing survival tips and other response actions during and immediately following an earthquake.
- (2) Warnings and advice on the continuing threat of fire, unsafe areas, and aftershocks.
- (3) As the initial response shifts to recovery, the airport operator, through its 'Incident Action Plan, being **prepared** to provide guidance to returning airport employees and tenants regarding safety precautions associated with:
 - (a) Sanitary conditions.
 - (b) Unsafe drinking water.
 - (c) Use of utilities.
- d. **Protective Actions.** Consideration must be given to relocating people from damaged structures, particularly those facilities which may receive more damage when hit by subsequent aftershocks. The relocation of transient personnel to designated mass care facilities should be coordinated with the local emergency management agency.
- **7-4-20 SOPS AND CHECKLISTS.** The following provides some examples of the types of information

that may be included in functional SOPs and Checklists:

- a. **Before the Emergency.** In preparation for an earthquake,- the planning team should develop:
- (1) A facility inspection SOP that is specific to potential earthquake damage. This is something that can be used by airport employees as a preliminary inspection process for **evaluating** facility safety for public use following an earthquake until it can be inspected by qualified engineers.
- **2)** A listing of those airport facilities which have special earthquake-resistant construction.
- (3) A personnel accountability SOP. Encourage airport tenants to develop the same type SOP.
 - (4) A resource needs list, including:
- **(a)** The availability of emergency generators.
- (b) Special resource storage lockers for disaster supplies.
- (c) Special fastening or anchoring methods for equipment.
- (5) Earthquake-specific training programs, drills, and exercises.

b. During the Emergency (Response).

- (1) Degree of response for each level of the earthquake severity.
- (2) Anticipate actions to be taken by each airport function, such as Operations, Maintenance, Administration, ARFF, Law Enforcement, EMS, tenants, etc.
- c. After the Emergency (Recovery). The recovery effort will be dependent upon the severity of the earthquake, the amount of damage, facilities/equipment/systems impacted, and the availability of resources. Recovery efforts should involve:
- (1) As with other emergencies, consider the formation of a Situation Analysis Team consisting of representatives from appropriate airport

organizations, functional areas, tenants, etc., that:

- (a) Ensures personnel account-ability procedures have been implemented.
- (b) Ensures periodic damage assessments are conducted.
- (c) Prepares an Incident Action Plan to include long and short term considerations for:
- $\underline{\mathbf{1}}$ Final damage assessment (written, pictorial, including video).
- **2** Public information announcements.
 - **3** Facility repair.
 - **<u>4</u>** Supply inventory and restoration.
 - **5** Cost documentation.
 - **<u>6</u>** Economic impact.

- 7 Documentation of actions taken.
- $\underline{\boldsymbol{8}}$ Personnel utilization by time on duty.
- $\underline{\mathbf{9}}$ Critical Incident Stress Debriefing requirements.
- **10** Equipment utilization documentation.
 - **11** Overall cleanup activities.
- $\underline{\mathbf{12}}$ Air Operations Area (AOA) inspections.
 - (2) Issuance of appropriate NOTAMs.
- (3) Critique of the overall operation and apply lessons learned to planning and training programs.



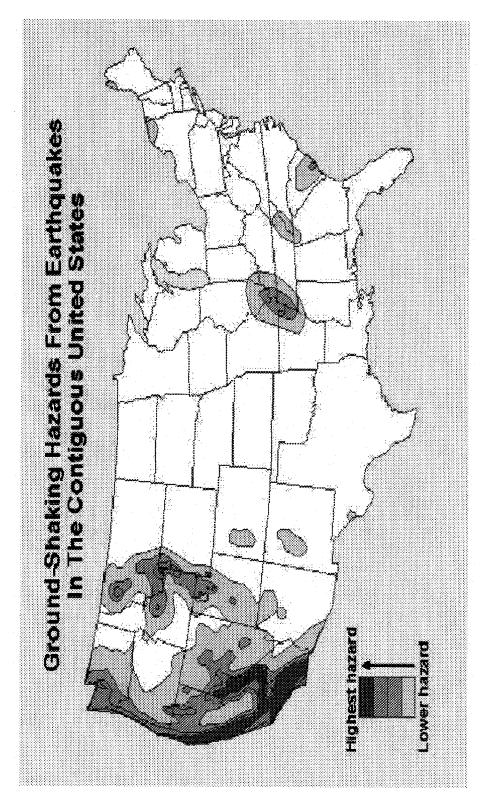


FIGURE 7-4-3. MODIFIED MERCALLI INTENSITY SCALE

Ī	Not felt. Marginal and long-period effects of large earthquakes.
Ī	Felt by persons at rest, on upper floors, or favorably placed.
ш	Felt indoors. Hanging objects swing. Vibration like passing of light trucks. Duration estimated. May not be recognized as an earthquake.
IV	Hanging objects swing. Vibration like passing heavy trucks; or sensation of a jolt like a heavy ball striking the walls. Standing motor cars rock. Windows dishes doors rattle. Glasses clink. Crockery clashes. In the upper range of IV, wooden walls and frames creak.
V	Felt outdoors; direction estimated. Sleepers wakened. Liquids disturbed, some spilled. Small unstable objects displaced or upset. Doors swing, close, open. Shutters, pictures move. Pendulum clocks stop, start, change rate.
VI	Felt by all. Many frightened and run outdoors. Persons walk unsteadily. Windows, dishes, glassware, broken. Knickknacks, books, etc. off shelves. Pictures off walls. Furniture moved or overturned. Weak Plaster and masonry D cracked. Small bells ring (church school). Trees, bushes shaken (visibly, or heard to rustle).
VII	Difficult to stand. Noticed by drivers of motor cars. Hanging objects quiver. Furniture broken. Damage to masonry D, including cracks. Weak chimneys broken at roof line. Fall of plaster, loose bricks, stones, tiles, cornices, (also unbraced parapets and architectural ornaments). Some cracks in masonry C. Waves on ponds; water turbid with mud. Small slides and caving in along sand or gravel banks. Large bells ring. Concrete irrigation ditches damaged.
VIII	Steering of motor cars affected. Damage to masonry C; partial collapse. Some damage to masonry B, none to masonry A. Fall of stucco and some masonry walls. Twisting, fall of chimneys, factory stacks, monuments, towers, elevated tanks. Frame houses moved on foundations if not bolted down; loose panel walls thrown out. Decayed piling broken off. Branches broken from trees. Changes in flow or temperature of springs and wells. Cracks in wet ground and on steep slopes.
ΙΧ	General panic. Masonry D destroyed; masonry C heavily damaged, sometimes with complete collapse; masonry B seriously damaged. (General damage to foundations.) Frame structures, if not bolted, shift off foundations. Frames cracked. Serious damage to reservoirs. Underground pipes broken. Conspicuous cracks in ground. In alluviated areas, sand and mud ejected, earthquake fountains, sand craters.
X	Most masonry and frame structures destroyed with their foundations. Some well-built wooden structures and bridges destroyed. Serious damage to dams, dikes, embankments. Large landslides. Water thrown on banks of canals, rivers, lakes, etc. Sand and mud shifted horizontally on beaches and flat land. Rails bent slightly.
XI	Rails bent greatly. Underground pipelines completely out of service.
ХП	Damage nearly total. Large rock masses displaced. Lines of sight and level distorted. Objects thrown into the air.

Definition of Masonry A. R. C. D.

Definition of Masonny A, b, C, D		
Masonry A	Good workmanship, mortar, and design; reinforced, especially laterally, and bound together by using steel, concrete, etc.; designed to resist lateral forces.	
Masonry B	Good workmanship and mortar; reinforced, but not designed in detail to resist lateral forces.	
Masonry C	Ordinary workmanship and mortar, no extreme weaknesses like failing to tie in at comers, but neither reinforced nor designed against horizontal forces.	
Masonry D	Weak materials, such as adobe; poor mortar; low standards of workmanship; weak horizontally.	

TORNADO

- 7-4-21 INTRODUCTION. A tornado consists of violent whirling wind accompanied by a funnel-shaped cloud. Usually, tornadoes are associated with severe weather conditions such as thunderstorms and Tornadoes are very destructive. The hurricanes. average width of a tornado is 300 to 500 yards. Their path may extend up to fifty miles, and the funnel cloud moves at speeds between 10 and 50 mph. The wind speed within the funnel cloud has been estimated at between 100 and 500 mph. Roughly two percent of all tornadoes are "violent" tornadoes, with wind speeds of 300 mph or more, an average path width of 425 yards, and an average path length of 26 miles. Tornado season runs from March to August in the United States, with peak activity from April to June; however, tornadoes can occur year-round.
- a. **Risk** Area. Tornadoes have occurred in every State (reference Figure 7-4-4). Historically, they have been most frequent in Texas, Oklahoma, Florida, Kansas, Nebraska, Iowa, South Dakota, Illinois, Missouri, Mississippi, Louisiana, Colorado, Wisconsin, Arkansas, Georgia, North Dakota, Minnesota, Indiana, and Michigan More than 50 percent of the land mass in the United States is within the area of tornado risk.
- **b. Risk Assessment.** A risk assessment should be prepared by the AEP Planning Team which identifies the facilities, properties, equipment, etc. that may be vulnerable to the hazards associated with a tornado. The assessment should:
- (1) Identify resources such as essential equipment, tools, vital records, etc. that may need to be moved to a safe location.
- (2) Identify essential automation systems and determine Unintenupible Power Supply (UPS) availability. Determine which system(s) should be routinely backed-up and/or shutdown until the tornado threat passes.
- (3) Identify any facilities which should be evacuated.

7-4-22 PURPOSE.

The information contained in this hazard-specific appendix is intended to supplement the Basic Plan and Functional Annexes of the Airport Emergency Plan It defines responsibilities and describes actions to be taken in the event a tornado is forecast or occurs. Further, this document, in conjunction with the Basic

Plan and Functional Annexes, forms the basis for elements to be included in functional Standard Operating Procedures (SOPs) and Checklists.

7-4-23 SITUATION AND ASSUMPTIONS. This section should include information about as it relates to such issues as:

- **a.** The airport's susceptibility to a tornado (reference the Hazards Analysis Program).
- **b. Airport** structures suitable to serve as a tornado shelter.
- c. Airport utilities along with their respective susceptibility to wind damage; which serve key facilities and what is the availability of alternative sources (e.g. power generators, communications RACES, etc.).

7-4-24 OPERATIONS.

- **a. General. This section explains the** airport's overall approach to responding to a forecasted or actual tornado, i.e. what should happen, when, and at whose direction. Topics should include:
- (1) Division of airport and local responsibilities, to include roles and relationships of emergency response organizations.
- **(2)** Mutual aid agreements relative to the specific emergency.
 - (3) Criteria for activation of the EOC.
- **(4)** Sequence of actions before, during and after the emergency situation.
- b. Checklist and SOPs. Tornado specific SOPs and Checklists should be prepared.
- c. **Training.** Associated training programs should be developed and implemented. A brief discussion on related training programs should be provided.

7-4-25 ORGANIZATION AND ASSIGN-MENT OF RESPONSIBILITIES. Some examples include:

a. **Air Traffic Control Tower.** In accordance with the letter of agreement:

- (1) Inspect FAA owned operated, and maintained facilities for damage and operability.
- (2) Restrict aircraft operations on the airport until the runway(s), taxiways, and ramps have been inspected by the airport owner/ operator.
- (8) Issue appropriate Notice to Airmen (NOTAM) upon receipt of information from authorized airport personnel, if requested.

b. Aircraft Rescue and Fire Fighting (ARFF).

- (1) Conduct fire suppression and rescue operations, as needed.
- **(2)** Assist in providing emergency medical assistance, as needed.
- (3) Check for petroleum leaks and other potential hazardous materials problems.
 - **(4)** Survey ARFF property, to:
 - (a) Determine integrity of building.
- **(b)** Determine status of gas, electricity, water, and sanitation.
 - (c) Test telephones.
 - (d) Test apparatus radios.
 - (e) Test station radios.
 - **(f)** Test alerting system(s).
- (5) Assist in support operations, to include search, inspections, personnel accountability, and protective action implementation.
- **(6)** Review personnel requirements and adjust accordingly.
- (7) To the degree communications systems will permit, coordinate activities with local community fire departments, if necessary.
- **(8)** Participate in Incident Command/ Unified Command System in accordance with preestablished protocols.

c. Law Enforcement.

- (1) Provide continued law enforcement and security services on the airport, as needed, including those required by 14 CFR part 107, Airport Security.
- **(2)** Survey law enforcement property, to include:
 - (a) Determine integrity of building.
- (b) Determine status of gas, electricity, water, and sanitation.
 - (c) Test telephones.
 - (d) Test apparatus radios.
 - (e) Test station radios.
 - **(f)** Test alerting system(s).
- (3) Assist in support operations, to include search, inspections, personnel account-ability, and protective action implementation.
- (4) Review personnel requirements and adjust accordingly.
- (5) To the degree communications systems will permit, coordinate activities with local community law enforcement agencies, if necessary.
- **(6)** Participate in Incident Command/ Unified Command System in accordance with preestablished protocols.

d. Emergency Medical Service.

(1) Organize the necessary action for triage and treatment of any casualties, as necessary. Provide for the transportation (air, land, or sea) of casualties to designated medical facilities.

NOTE: Ensure medical facilities are capable of handling casualties • those facilities may have also been damaged.

- (2) Survey EMS property, to:
 - (a) Determine integrity of building.
- (b) Determine status of gas, electricity, water, and sanitation.
 - (c) Test telephones.

- (d) Test apparatus radios.
- (e) Test station radios.
- **(f)** Test alerting system(s).
- (3) Assist in support operations, to include search, inspections, personnel accountability, and protective action implementation.
- (4) Review **personnel** requirements and adjust accordingly.
- (5) To the degree communications systems will permit, coordinate activities with local community EMS units, if necessary.
- **(6)** Provide Critical Incident Stress support, as appropriate.
- (7) Participate in Incident Command/ Unified Command System in accordance with pmestablished protocols.

e. Airport Operator.

(1) Operations.

- (a) Conduct airfield inspections, as needed.
- (b) Issue appropriate **NOTAM(s)**, if conditions warrant and permit.
- **(c)** Activate the Airport Emergency Operations Center **(EOC)**, as appropriate.
- $\mbox{(cl)}$ Provide emergency support services through the EOC.
- (e) Assist in support operations, to include search, inspections, personnel account-ability, and protective action implementation.
- **(f)** Review personnel requirements and adjust accordingly.
- **(g)** To the degree communications systems will permit, coordinate activities with local community emergency management agencies, if necessary.
- (h) Coordinate activities with the ATCT, as needed.

- (i) Interface with, coordinate, and utilize as needed, the resources made available by other airport tenants, including air carriers.
- **(j)** Participate in Incident Command/Unified Command System in accordance with pre-established protocols.

(2) Maintenance.

- (a) Assist/provide critical services, including utility support (activation/cut-off), as needed.
- **(b)** Provide safety inspections, as needed.
 - (c) Assist in facility restoration.
 - (d) Provide sanitation support services,
- (e) Assist in the provision of required resources.
 - (f) Participate in EOC operations.
- **(g)** Participate in Incident Command/Unified Command System in accordance with pre-established protocols.

(3) Administration.

- (a) Provide procurement services.
- **(b)** Provide appropriate budgeting, payment, and cost recovery authorization and services.
 - (c) Provide personnel services.
 - (d) Participate in EOC operations.
- $\begin{array}{ccc} & & \text{Public} & & \textbf{Information} & \textbf{and} \\ \textbf{Community} & \textbf{Relations.} & & & \\ \end{array}$
- (a) Interface with the media, as conditions warrant.
- **(b)** Provide news releases relative to the airport's operational capability.
- $\ensuremath{\text{(c)}}$ Assist with the interface with other airport tenants.
 - (d) Participate in EOC activities.

f. Aircraft Owners/Operators.

- (1) Provide EOC representation, as needed.
- **(2)** Provide for the initial notification to families of casualties, as appropriate.
- (3) Provide for passenger. casualty tracking.
- **(4)** Inspect facilities owned/operated or maintained by these tenants.

g. Airport Tenants.

- (1) Provide assistance on a voluntary basis or in accordance with established agreements.
- **(2)** Participate in Incident Command/ Unified Command System in accordance with preestablished protocols.
- (3) Inspect facilities owned/operated or maintained by these tenants.

7-4-26 ADMINISTRATION AND LOGISTICS.

This section of the document should cover those general support requirements specific to a tornado. Because of the unique nature of this type emergency and its potential for involving a wide geographic area and potentially limiting the availability of resources, there may be a need for adjusting standard policies and procedures for items such as resource management and mutual aid.

7-4-27 PLAN DEVELOPMENT. This section should identify who is responsible for coordinating revisions of the Tornado Appendix, keeping its attachments current, and ensuring that **SOPs** and Checklists are developed and maintained.

7-4-28 AUTHORITIES AND REFERENCES.

This section should identify any tornado-specific statutes, regulations, etc. that address related authority, (e.g. building codes). Any documents used as **guidance** or for information such as those by FEMA or the American Red Cross should be mentioned.

7-4-29 **UNIQUE PLANNING CONSIDERATIONS.** This section contains a listing of the functional annexes that typically would require the preparation of a hazard-specific appendix for tornadoes. It also identifies many of the unique

planning considerations that should be examined by the planning team and used, as appropriate, when preparing tornado-specific appendices.

a. **Direction and Control.** For this particular hazard it is essential that emergency response personnel take immediate action based upon information received, particularly in the area of protective action decision making. If a tornado should strike the airport, immediate action is again needed, as soon as conditions permit, to gather initial damage assessment information in the area that was impacted by the tornado. This information is necessary to determine the severity and extent of injuries and damages.

High risk airports may want to use trained spotters, or if the local jurisdiction uses a network of trained spotters, consideration should be given to participating with them. This spotting network would be relied on to rapidly communicate information that can be helpful to the appropriate authorities responsible for making the decision for when to upgrade from a Tornado Watch to a Tornado Warning. The network can also assist in tracking the tornado's path.

This data gathering effort should provide much of the information decision makers will need to implement and prioritize response actions for: search and rescue activities; access control; debris clearance; resumption of airport operations; restoration of utilities; and the inspection, condemnation, and / or demolition of buildings and other structures.

Provisions should be made, as appropriate, to address the following planning considerations in one or more appendices to a Direction and Control Annex.

- (1) Damage Assessment. Conduct immediate ground, and if available and feasible, air surveys to determine the extent of damages.
- **(2) Search and Rescue.** Use of damage assessment information to identify the facilities where search and rescue may need to be conducted and to establish a priority for these operations.
- **(3)** Access Control. Access to areas severely impacted by the tornado should be restricted to emergency response personnel until the area can be inspected.
- **(4) Debris Clearance.** Actions taken to identify, remove, and dispose of rubble, wreckage,

and other material which block or hamper emergency response activities, Functions may include:

- (a) Demolition and other actions to clear obstructed runways, taxiways, ramps, and obstructed roads.
- **(b)** Repairing or temporarily reinforcing any damaged airport paved surfaces, to include roads and bridges.
- (c) Construction of emergency detours and access roads.
- (5) Inspection, Condemnation, and Demolition. Take actions to inspect airport facilities and determine whether they are safe to inhabit or to support the use by airport operations after a tornado has occurred. Activities may include the inspection of those facilities which may be critical to emergency operations.
- b. Alert and Warning. Warning of the public is critical for this hazard. The NWS will place areas under a Tornado Watch when conditions are particularly favorable for tornadoes and severe storms. NWS will issue a Tornado Warning when-a tornado has been visually spotted or picked up on radar. Television; radio, and NOAA tone alert radio are sources of information for the public: The following planning considerations should be addressed, if appropriate, in one or more appendices to a warning annex:
- (1) Provisions for the airport to obtain timely Tornado Watch and Warning information (direct link to area weather stations or local EMA, continuously monitor NWS and other sources, etc.).
- (2) Provisions for notifying airport employees, tenants, and transient personnel.
- c. Emergency Public Information. The flow of accurate and timely information is critical to the protection of lives and property. This section addresses the provisions made to prepare and disseminate notifications, updates, and instructional messages to follow up on the initial warning.

The following planning considerations should be addressed, if appropriate; in one or more appendices to an EPI Annex. During a Tornado Watch, information 'should be disseminated to airport employees, tenants, and transients providing guidance

on the appropriate protective actions to take if a Tornado Warning is issued.

- **d. Protective Actions.** Evacuation is not a practical option for this hazard since the point of touchdown and the track of a tornado are unpredictable. The typical protective action for a tornado is shelter-in-place.
- **7-4-30 SOPS AND CHECKLISTS.** The following provides some examples of the types of information that may be included in functional SOPs and Checklists:
- a. **Before the Emergency.** In addition to the planning elements found in your Basic Plan and the building strllcture review discussed above, consideration should be given to the development of
- (1) Post-event facility inspection guidance that is specific to high winds and/or abnormal rainfall situations. This is a document that can be used by airport employees as a **preliminary** inspection process for evaluating facility safety for public use following an tornado until it can be inspected by qualified engineers, if deemed necessary.
- (2) A checklist of pre-storm actions such as:
 - (a) Testing of emergency generators.
- **(b)** Looking for 'loose objects which might cause damage in heavy winds.
- (c) Coordinating potential protective actions with airport tenants and the local EMA.
- **(d)** Tornado-specific training programs, drills, and exercises.
- b. **During the Emergency (Response). The** degree of response will depend upon the severity of the tornado.
- (1) Consideration should be given to the development of response SOPs and/or Checklists which outline anticipated actions to be taken by each airport function, such as Operations, Maintenance, Administration, ARFF, Law Enforcement, EMS, tenants, etc.

3

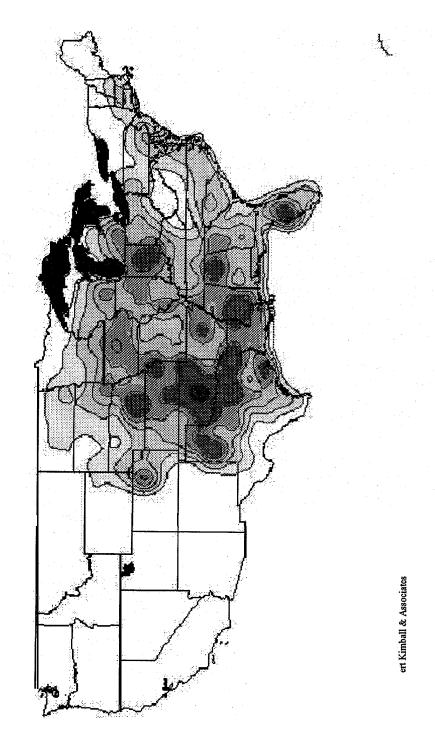
c. After the Emergency (Recovery).

The recovery effort will be dependent upon the severity of the tornado, the amount of damage, facilities/equipment/systems impacted and the availability of resources. Recovery efforts should involve:

- (1) As with other emergencies, consider the formation of a Situation Analysis Team consisting of representatives from appropriate airport organizations, functional areas, tenants, etc. ,that:
- (a) When safe to do so,, ensures periodic damage assessments are conducted.
- **(b)** Prepares an Incident Action Plan to include long and short term considerations for:
- **1** Final damage assessment (written, pictorial, including video).
 - **2** Public information announcements.
 - **3** Facility repair.
 - **4** Supply inventory and restoration.

- **5** Cost documentation.
- **<u>6</u>** Economic impact.
- **7** Documentation of actions taken.
- **8** Personnel utilization by time on duty.
- **9** Critical Incident Stress Debriefing requirements, if necessary.
- **10** Equipment utilization documentation.
 - 11 Overall cleanup activities.
- **12** Air Operations Area (AOA) inspections.
 - (2) Issuance of appropriate NOTAMs.
- (3) Critique of the overall operation and apply lessons learned to, planning and training programs.

FIGUR: 7-4-4. AREAS OF RISK OF SEVERE T 'ORNADOES



VOLCANO

7-4-31 INTRODUCTION. Volcanic ash consists of finely fragmented particles of rock, minerals, and aerosol droplets generally less than 2 millimeters in diameter (less than 0.063mm diameter for fine ash) produced by explosive volcanic eruptions.

Volcanic ash injected into the atmosphere to altitudes exceeding 30km 100,000') may impact areas for hundreds to thousands of kilometers downwind from the volcano.

Physical properties of volcanic ash which make it especially harmful to aviation operations include its small grain size, hardness and abrasive nature, ability to hold an electrostatic charge, and ability to absorb water and droplets of corrosive acid aerosol. Because of these properties, ash presents a number of unique problems when efforts are made to remove it during the cleaning process. Volcanic ash is also slippery when wet. Accordingly, aircraft operations should not be permitted on a runway that has been contaminated with wet ash unless friction testing determines that they can be conducted safely.

Ash fall on airport facilities will also affect other areas of the airport, including taxiways, ramps, buildings, ground services, electric utilities, communications facilities and airplanes parked on the ground.

- a. Risk Area. There are almost, 70 active and potentially active volcanoes in the United States. They are located on the West Coast of the contiguous 48 states from California to Washington State; there are also volcanoes in Alaska and Hawaii (reference Figure 7-4-5). The airports AEP planning team should contact the U.S. Geological Survey (USGS) to quantify the volcanic hazard their airport/community faces. This may be done as a part of the Hazards -Analysis Program.
- b. Risk Assessment. A risk assessment should be prepared by the AEP planning team which identifies the facilities, properties, equipment, etc., that may be vulnerable to volcanic ash. It is important that the team plans for the worst case volcanic scenario, i.e. heavy ash fall plus heavy rain. The assessment should include a narrative description that identifies those airport facilities that may be more susceptible to volcanic ash damage.

7-4-32 PURPOSE. The information contained in this hazard-specific appendix is intended to supplement the Basic Plan and Functional Annexes of the Airport Emergency Plan. It defines responsibilities and describes actions to be taken in the event-volcanic ash reaches your airport. Further, this document, in conjunction with the Basic Plan and Functional Annexes, forms the basis for elements to be included in functional Standard Operating Procedures (SOPs) and Checklists.

7-4-33 **SITUATION** AND ASSUMPTIONS. Assumptions are the advance judgments concerning what might happen in the event of volcanic ash fall on the airport., The situation includes major **findings** from the hazards analysis; identification of facilities that may **be** impacted including sensitive environmental areas and transportation routes; pertinent climate and weather factors; and any critical time variables which may impact the emergency responses, **e.g.** time of day and month of year,

This section should include information as it relates to such issues as:

- a. The airport's susceptibility to a volcanic ash event, such as proximity to a volcano(es) and the prevailing. wind direction (reference the Hazards Analysis Program).
- b. The impact of such an event on the community as a whole, particularly in terms of overall impact on response and recovery resource availability, i.e. a major volcanic ash fall will impact a wide geographic area resulting in limited resource availability.
- c. A review of airport access. Determine the vulnerability of access roads and bridges to volcanic ash, mud slides, and eruption debris damage and the potential impact if some or all of them are rendered u n u s a b 1 e.
- d. A review of airport structures. Determine those airport structures which have high roof-load construction.
- e. A review of airport utilities. Determine those utilities which serve key facilities and the availability of alternative source, e.g. power generators, communications-RACES, etc.

- f. A review of worst case scenarios. What is the impact if a volcanic eruption and heavy ash fall occurs during the airport's peak period? What if it occurs in the middle of the night?
- g. A review of communications capabilities. Some systems may be rendered inoperable during and after a volcanic emption and ash fall. It is important to shut down all nonessential equipment; short circuits by conductive dust and abrasion of moving parts are the major concerns.

7-4-34 OPERATIONS.

- **a. General.** This section explains the airport's overall approach to the emergency situation, i.e. what should happen, when, and at whose direction. Topics should include:
- (1) Division of airport and local responsibilities, to include roles and relationships of emergency response organizations.
- (2) A list of mutual aid agreements relative to the specific emergency.
 - (3) Criteria for activation of the EOC.
- (4) A description of sequence of actions before, during and after the emergency situation. Obviously, for this type event, many of the activities will be after the event.
- (5) **Checklist and SOPs.** As with other emergencies, emergency-specific **SOPs** and Checklists should be prepared.
- (6) **Training.** Associated training programs should be developed and implemented. A brief discussion on related training programs should be provided.

7-4-35 ORGANIZATION AND ASSIGN-MENT OF RESPONSIBILITIES. Some example include:

a. Air Traffic Control Tower.

- (1) Inspect FAA owned operated, and maintained facilities for damage and operability.
- (2) Restrict aircraft operations on the airport until the mnway(s), taxiways, and ramps have been inspected by the airport owner/ operator.

(3) Issue appropriate Notice to Airmen (NOTAM) upon receipt of information from authorized airport personnel, if requested.

b. Aircraft Rescue and Fire Fighting (ARFF).

- (1) Survey ARFF property, to include:
 - (a) Integrity of building.
- **(b)** Gas, electricity, water, and sanitation.
 - (c) Test telephones.
 - (d) Test apparatus radios.
 - (e) Test station radios.
 - **(f)** Test alerting system(s).
- (2) Assist in support operations to include search, inspections, personnel accountability, and protective action implementation.
- (3) Review personnel requirements and adjust accordingly.
- (4) To the degree communications systems will permit, coordinate activities with local community fire departments, if necessary.
- (5) Participate in Incident Command/ Unified Command System in accordance with pie-established protocols.

c. Law Enforcement.

- (1) Provide continued law enforcement and security services on the airport, as needed, including those required by 14 CFR part 107, Airport Security,
- (2) Survey law enforcement property, to include:
 - (a) integrity of building.
- **(b)** Gas, electricity, water, and sanitation.
 - (c) Test telephones.
 - (d) Test apparatus radios.

- (e) Test station radios.
- **(f)** Test alerting system(s).
- (3) Assist in support operations, to include search, inspections, personnel accountability, and protective action implementation.
- (4) Review personnel requirements and adjust accordingly.
- (5) To the **degree** communications systems will permit, coordinate activities with local community law enforcement agencies, if necessary.
- (6) Participate in Incident Command/ Unified Command System in accordance with pre-established protocols.

d. Emergency Medical Services.

- (1) Provide emergency medical assistance, as needed.
 - (2) Survey EMS property, to include:
 - (a) Integrity of building.
- **(b)** Gas, electricity, water, and sanitation.
 - (c) Test telephones.
 - (d) Test apparatus radios.
 - (e) Test station radios.
 - **(f)** Test alerting system(s).
- (3) Assist in support operations, to include search, inspections, personnel accountability, and protective action implementation.
- (4) Review personnel requirements and adjust accordingly.
- (5) To the degree communications systems will permit, coordinate activities with local community EMS units, if necessary.
- **(6)** Provide Critical Incident Stress Disorder support, as appropriate.
- (7) Participate in Incident Command/ Unified Command System in accordance with pre-established

protocols.

e. Airport Operator.

(1) Operations.

- (a) Conduct airfield inspections, as needed.
- (b) Conduct runway friction tests, as needed.
- (c) Issue appropriate NOTAM(s), if conditions warrant and permit.
- (d) Activate the Airport Emergency Operations Center (EOC), as appropriate.
- (e) Provide emergency support services through the EOC.
- (f) Assist in support operations, to include search, inspections, personnel accountability, and protective action implementation.
- **(g)** Review personnel requirements and adjust accordingly.
- **(h)** To the degree communications systems will permit, coordinate activities with local community emergency management agencies, if **necessary**.
- (i) Coordinate activities with the ATCT, as needed.
- (j) Interface with coordinate, and utilize as needed, the resources made available by other airport tenants, including air carriers.
- **(k)** Participate in Incident Command/Unified Command System in accordance with pie-established protocols.

(2) Maintenance.

- (a) Assist/provide critical services, including utility support (activation/cut-off), as needed.
- (b) Provide safety inspections, as needed.

- (c) Assist in facility restoration, including debris removal.
- **(d)** Provide sanitation support services.
- (e) Assist in the provision of required resources.
 - **(f)** Participate in EOC operations.
- **(g)** Participate in Incident Command/Unified Command System in accordance with pm-established protocols.

(3) Administration.

- (a) Provide procurement services.
- **(b)** Provide appropriate budgeting, payment, and cost recovery authorization and services.
 - (c) Provide personnel services.
 - (d) Participate in EOC operations.

(4) Public Information and Community Relations

- (a) Interface with the media, as conditions warrant.
- (b) Provide news releases relative to the airport's operational capability.
- (c) Assist with the interface with other airport tenants.
 - (d) Participate in EOC activities.

(5) Aircraft Owners/Operators.

(a) Provide EOC representation, as needed.

(6) Airport Tenants.

- (a) Provide assistance on a voluntary basis or in accordance with established agreements.
- (b) Participate in Incident Command/Unified Command System in accordance with pm-established protocols.

7-4-36 ADMINISTRATION AND LOGISTICS.

This section of the document should cover those general support requirements specific to volcanic ash. Like many other natural disasters, it has a potential for involving a wide geographic area and potentially limiting the availability of resources. Therefore, there may be a need for adjusting standard policies and procedures for items such as resource management and mutual aid.

7-4-37 PLAN DEVELOPMENT. This section should identify who is responsible for coordinating revisions of the Volcanic Ash Appendix, keeping its attachments current, and ensuring that **SOPs** and Checklists am developed and maintained.

7-4-38 AUTHORITIES AND REFERENCES.

This section should identify any flood-specific statutes, regulations, etc. that address related authority, (e.g. Building Codes). Any documents used as guidance or for information, such as FEMA, USGS, or the American Red Cross should be mentioned.

7-4-39 UNIQUE PLANNING CONSIDERATIONS. This section contains a listing of the functional annexes that would typically be required in the preparation of a hazard-specific appendix for volcanic ash. It also identifies the unique and/or regulatory planning considerations that

a. Direction and Control. The extent of the initial response will depend on warning time, which varies with the cause and the source of the volcanic ash. Provisions should be made, as appropriate, to address the following planning considerations in one or more appendices to a Direction and Control Annex.

should be used by the airport AEP planning team.

- (1) **Damage Assessment.** Conduct of immediate ground, and if available and feasible, air surveys to the determine the extent of damages.
- (2) Search and Rescue. Use of damage assessment information to identify the facilities where search and rescue may need to be conducted and to establish a priority for these operations.
- (3) Access **Control.** Access to areas severely impacted by the volcanic ash should be restricted to emergency response personnel until the area can be inspected.
- (4) **Debris Clearance.** Actions taken to remove and dispose of volcanic ash which may

hamper airport operations and emergency response activities. Some procedures which may be considered include:

- (a) Clear the runway first; tow aircraft to/from the terminal.
 - 1 Dusting (less than ¼ inch)
 - mechanically sweep while dry
 - 2 Accumulation (more than

1/4 inch)

•Start on runway centerline

*Wet the ash and road-grade into berms (Worst case is dry ash; wet the ash for control; grade into windrows; load up and remove; use emulsions to stabilize berms and infields)

•Move ash only once (identify approved dump site; cap with emulsion or soil and seed it; document volume and consider it as a future aggregate resource)

*High-pressure water to clean surface

- (5) Inspection, Condemnation, and Demolition. Actions taken to inspect airport facilities to determine whether they are safe to inhabit or otherwise use in support of airport operations after a volcanic ash situation has occurred. Structures may have been weakened by the weight of the volcanic ash It will be necessary, therefore, to inspect facilities to determine if they are structurally safe to inhabit. Activities may include the inspection of those facilities which may be critical to emergency operations.
- **b.** Alert and Warning. Volcanic eruptions can occur with no warning. For those volcanoes that have a monitoring system in place, it is possible to give warning of an eruption
- **c.** Emergency Public Information. The flow of accurate and timely information is critical to the protection of lives and property following a major volcanic emption. This section should deal with updates, warnings and instructional messages to those personnel at the airport.

The following planning considerations can be

addressed, if appropriate, in one or more appendices to au EPI Annex:

- (1) Instructions for preparing businesses (inside and outside) for mitigating the effects of volcanic ash.
- (2) The development of airport specific information brochures for airport employees and tenants regarding the hazards associated with volcanic ash and steps that can be taken to mitigate those hazards.
- d. **Protective Actions.** Consideration should be given to relocating people out of those facilities which have been previously identified as being potentially structurally weak.
- **7-4-40 SOPs AND CHECKLISTS.** The following provides some examples of the types of information that may be included in functional SOPs and Checklists:

a. Before the Emergency.

- (1) A facility inspection SOP that is specific to potential volcanic ash damage. This something that can be used by airport employees as a preliminary inspection process for evaluating facility safety for public use following a volcanic ash event until it can be inspected by qualified engineers.
- (2) A listing of those airport facilities which have been constructed with a high roof loading.

b. During the Emergency.

- (1) The degree of response will depend upon the severity of the volcanic ash fall.
- (2) Develop response SOPs and/or Checklists which outline anticipated actions to be taken by each airport function (Operations, Maintenance, Adminstration, ARFF, Law Enforcement, EMS, tenants, etc.) during the emergency.

c. After the Emergency

The recovery effort will be dependent upon the severity of the ash fall, the amount of damage, facilities/equipment/systems impacted and the availability of resources.

(1) As with other emergencies, consider the formation of a Situation Analysis Team consisting of representatives from appropriate **airport** organizations, functional areas, tenants, etc. The Team:

- (a) Ensures periodic damage assessments are conducted.
- **(b)** Prepares an Incident Action Plan, to include long and short term considerations for:

1 Final damage assessment (written, pictorial, including video).

2 Public Information

announcements.

3 Sanitary issues.

4 Facility repair.

5 Supply inventory and together

restoration.

6 Cost documentation.

7 Economic impact.

8 Documentation of actions

taken.

9 Personnel utilization by

time on duty.

<u>10</u> Critical Incident Stress Debriefing requirements.

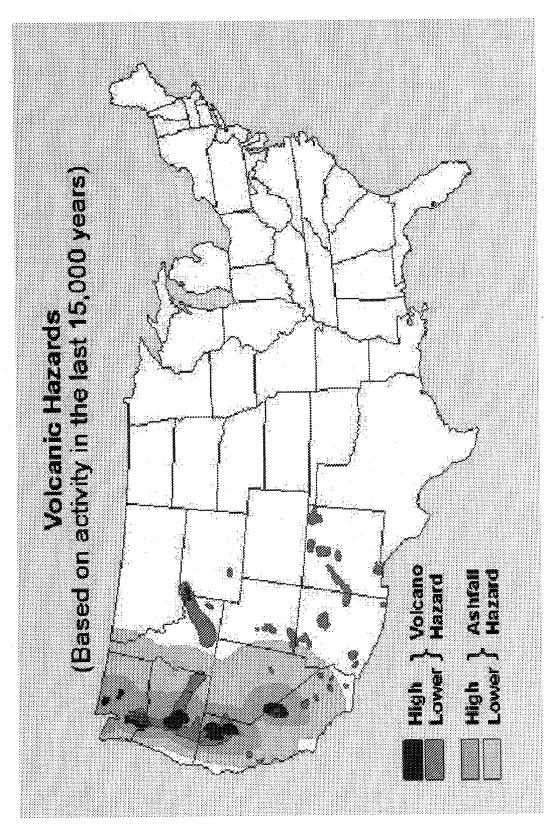
11 Equipment utilization documentation.

12 Overall cleanup activities.

13 Air Operations Area (AOA) inspections (ref. AC 150/5200-18B, Airport Self-Inspection).

- (2) Issuance of appropriate NOTAMs.
- (3) Critique of the overall operation and apply lessons learned to planning and training programs.

FIGURE 7-4-5. AREAS OF VOLCANIC ASH RISK



FLOOD

- 7-4-41 INTRODUCTION. Flooding occurs when normally dry land becomes inundated with water. Sources of the water may be the result of natural bodies of water overflowing their banks, including artificial ones like dams or levees; structural failure of darns and levees, rapid accumulation of runoff or surface water; hurricane-caused storm surges or earthquake-caused tsunamis; or erosion of a shoreline. The two major planning parameters for flooding are:

 1) suddenness of onset (e.g. flash floods or dam failure), and 2) flood elevation in relation to structures and topography. Other factors to consider include debris movement, velocity of water flow, and extended duration of flood conditions.
- **a.** Risk **Area.** All States and territories are at risk from flooding (reference 7-4-6).
- b. Risk Assessment. An airport's susceptibility to flooding will be a matter of historical record, as will flood elevations. However, planners should monitor upstream development and extensive paving over ground that used to absorb runoff. The NWS maintains a list of communities with potential flash flood problems, and the USGS maintains stream flow data for large watersheds in cooperation with State and local agencies. Additionally, the National Flood Insurance Program (NFIP) has Flood Insurance Rate Maps and Flood Hazard Boundary Maps.
- **7-4-42 PURPOSE.** The information contained in this hazard-specific appendix is intended to supplement the Basic Plan and Functional Annexes of the `Airport Emergency Plan, It defines responsibilities and describes actions to be taken in the event a flood occurs at your airport. Further, this document, in conjunction with the Basic Plan and Functional Annexes, forms the basis for elements to be included in functional Standard Operating Procedures (SOPs) and Checklists.
- 7-4-43 **SITUATION AND ASSUMPTIONS.** This section should include information as it relates to such issues as:
- a. The airport's susceptibility to flooding. (reference the Hazards Analysis Program).
- **b.** The impact of such an event on the community as a whole, particularly in terms of overall impact on response and recovery resource availability, i.e. a major flood may impact a wide geographic area

off-airport resource accessibility may be extremely limited and should be planned for accordingly.

- c. A review of airport access. Determine the vulnerability of access roads and bridges to flooding and what is the impact if some or all of them are rendered unusable.
- d. A review of airport structures. Describe those airport structures which are potentially subject to flooding.
- e. A review of airport utilities. Major floods can negatively impact many utilities, including electric, water and sewer. Describe the type of utilities which serve key facilities and the availability of alternative sources (e.g. power generators, communications RACES, cell phones, etc.).
- f. A review of worse case scenarios. What is the impact of a flash flood on your airport vs. a more slowly escalating event? How will access roads be impacted?

7-4-44 **OPERATIONS.**

- **a. General. Tbis section** explains the airport's overall approach to responding to a forecasted or actual flood, i.e. what should happen, when, and at whose direction. **Topics** should include:
- (1) Division of airport and local responsibilities, to **include** roles and relationships of emergency response organizations.
- (2) Mutual aid agreements relative to the specific emergency.
 - (3) Criteria for activation of the EOC.
- (4) Sequence of actions before, during and after the emergency situation Obviously, for this type event, almost all activities will be after the event.
- b. Checklist and SOPs. Flood specific SOPs and Checklists should be prepared.
- c. **Training.** Associated training programs should be developed and implemented. A brief discussion on related training programs should be

provided.

7-4-45 ORGANIZATION AND ASSIGNMENT OF RESPONSIBILITIES.

Some examples include:

- a. Airport Traffic Control Tower. In accordance with the letter of agreement:
- (1) Inspect FAA owned, operated, and maintained facilities for damage and operability.
- (2) Restrict aircraft operations on the airport until the runway(s), taxiways, and ramps have been inspected by the airport owner/ operator.
- (NOTAM) Issue appropriate Notice to Airmen (NOTAM) upon receipt of information from authorized airport personnel, if requested.
- b. Aircraft Rescue and Fire Fighting (ARFF).
- (1) Move equipment to higher ground, if necessary.
- (2) Assist in providing emergency medical assistance, as needed.
- other potential **hazardous** materials problems.
 - (4) **Survey ARFF** property, to include:
 - (a) Determine integrity of building.
- (b) Determine status of gas, electricity, water, and sanitation.
 - (c) Test telephones.
 - (d) Test apparatus radios.
 - (e) Test station radios.
 - **(f)** Test alerting system(s).
- (5) Assist in support operations, to include search inspections, personnel accountability, and protective action implementation.
- **(6)** Review personnel requirements and adjust accordingly.

- (7) To the degree communications systems will permit, coordinate activities with local community fire departments, if necessary.
- (8) Participate in Incident Command/ Unified Command System in accordance with pmestablished protocols.
 - c. Law Enforcement.
- (1) Move equipment to higher ground, if **necessary**.
- **(2)** Provide for overall **airport** security as soon as possible.
- (3) Provide for overall traffic control, including coordination with mutual aid law enforcement agencies.
- (4) Provide continued law enforcement and security services on the airport, as needed, including those required by 14 **CFR** part 107, Airport Security.
- (5) **Survey** law enforcement property, to:
 - (a) Determine integrity of building.
- (b) Determine status of gas, electricity, water, and sanitation.
 - (c) Test telephones.
 - **(d)** Test apparatus radios.
 - **(e)** Test station radios.
 - **(f)** Test alerting system(s).
- **(6)** Assist in support operations, to include search, inspections, **personnel** accountability, and protective action implementation.
- (7) Review personnel requirements and adjust accordingly.
- (8) To the degree communications systems will permit, coordinate activities with local community law enforcement agencies, if necessary.
- (9) Participate in **Incident** Command/ **Unified** Command System in accordance with **pre-**

established protocols.

d. Emergency Medical Services.

- (1) Move equipment to higher ground, if necessary.
- **(2)** Provide emergency medical assistance, as needed.
 - (3) Survey EMS property, to include:
 - (a) Determine integrity of building.
- (b) Determine status of gas, electricity, water, and sanitation.
 - (c) Test telephones.
 - **(d)** Test apparatus radios.
 - (e) Test station radios.
 - **(f)** Test alerting system(s).
- (4) Assist in support operations, to include search, inspections, personnel accountability, and protective action implementation.
- (5) Review personnel requirements and adjust accordingly.
- **(6)** To the degree communications systems will permit, coordinate activities with local community EMS units, if necessary:
- (7) Provide Post Traumatic Stress Disorder support, as appropriate.
- **(8)** Participate in Incident Command/ Unified Command System in accordance with preestablished protocols.

e. Airport Operator.

(1) Operations.

- (a) Conduct **airfield** inspections, as needed.
- (b) Issue appropriate NOTAM(s), if conditions warrant and permit.

- (c) Activate the Airport Emergency Operations Center (EOC), as appropriate.
- $(\mbox{\bf d})$. Provide emergency support services through the EOC .
- (e) Assist in support operations, to include search, inspections, personnel accountability, and protective action implementation.
- **(f)** Review personnel requirements and adjust accordingly.
- **(g)** To the degree communications systems will permit, coordinate activities with local community emergency management agencies, if necessary.
- (h) Coordinate activities with the ATCT, as needed.
- (i) Interface with, coordinate, and utilize as needed, the resources made available by other airport tenants, including air carriers.
- **(j)** Participate in Incident Command/Unified Command System in accordance with pre-established protocols.

(2) Maintenance.

- (a) Assist/provide critical services, including utility support (activation/cut-off), as needed.
- **(b)** Provide safety inspections, as needed.
- (c) Assist in facility restoration, including debris removal.
 - (d) Provide sanitation support services.
- (e) Assist in the provision of required resources.
 - (f) Participate in EOC operations,
- **(g)** Participate in Incident Command/Unified Command System in accordance with pm-established protocols.

(3) Administration.

- (a) Provide procurement services.
- **(b)** Provide appropriate budgeting, payment, and cost recovery authorization and services.
 - (c) Provide personnel services.
 - (d) Participate in EOC operations.

(4) Public Information and Community Relations.

- (a) Interface with the media, as conditions warrant.
- **(b)** Provide news releases relative to the airport's operational capability.
- (c) Assist with the interface with other airport tenants.
 - (d) Participate in EOC activities.

(5) Aircraft Owners/Operators.

- (a) Provide EOC representation, as needed.
 - **(b)** Relocate aircraft, as needed.
- (c) Inspect facilities owned/operated and maintained by these tenants.

(6) Airport Tenants.

- (a) Provide assistance on a voluntary basis or in accordance with established agreements.
- (b) Participate in Incident Command/Unified Command System in accordance with pre-established protocols.
- (c) Inspect facilities owned/operated and maintained by these tenants.

7-4-46 ADMINISTRATION AND LOGISTICS.

This section of the document should cover those general support requirements specific to flooding. Like many other natural disasters, it has a potential for involving a wide geographic area and potentially limiting the availability of resources. Therefore, there may be a need for adjusting standard policies and procedures for items such as resource management

and mutual aid.

7-4-47 PLAN DEVELOPMENT. This section should identify who is responsible for coordinating revisions of the Flood Appendix, keeping its attachments current, and ensuring that **SOPs** and Checklists are developed and maintained.

7-4-48 AUTHORITIES AND REFERENCES.

This section should identify any flood-specific statutes, regulations, etc. that address related authority, (e.g. Building Codes). Any documents used as guidance or for information, such as FEMA or the American Red Cross should be mentioned.

7-4-49 UNIQUE PLANNING

CONSIDERATIONS. This section contains a listing of the functional annexes that would typically be required in the preparation of a hazard-specific appendix for floods. It also identifies the unique and/or regulatory planning considerations that should be used by the airport AEP planning team.

a. **Direction and Control. The** extent of the initial response will depend on warning time, which varies with the cause and the source of the flooding. Intense storms may produce a flood in a few hours or even minutes for upstream locations, while areas downstream may have from 12 hours to several weeks to prepare. Flash floods occur within six hours of the **beginning** of heavy rainfall, and dam failure may occur within hours of the first signs of breaching, but floods from **snowmelt** can take months to develop.

The AEPs of airports downstream of a heavy flood source should, in coordination with the local emergency management agencies' EOPs, address the following plating considerations in one or more appendices to a Direction and Control Annex:

- (1) Flood Control. Preparation to control flooding should include:
- (a) Coordination with a dam's staff during disaster or disaster threat situations to facilitate expeditious notifications and exchange of information.

NOTE: This should be done through the local jurisdiction's EOC.

 $\begin{tabular}{lll} \textbf{(b)} & Mapping & of & areas & likely & to & be \\ flooded. & & & \\ \end{tabular}$

- (c) Identification of potential locations for the placement of temporary levees and the inclusion of this information on the appropriate maps.
- (d) Arrangements for a labor force to perform flood fighting tasks associated with building a levee (i.e. fill and place sand bags to prevent flooding).
- (2) Continuity of Operations. Address the relocation, as necessary, of key operations, resources, vital records, and equipment to assure continuation of services and to prevent damage and loss.
- (3) Inspection and Condemnation. Structures left standing may have been weakened by water pressure or debris flow. Building interiors may be filled with mud and filth. It will be necessary, therefore, to inspect facilities to determine if they are structurally safe to inhabit. There also may be associated health issues.

b. Alert and Warning.

The NWS is responsible for most flood warning efforts in the United States. For larger river systems, hydrological models are used by River Forecast Centers. For many—not all-smaller streams, the NWS has developed a system called ALERT (Automated Local Evaluation in Real Time) that does not rely on volunteer observers. However, some communities may still need to us volunteer observers to monitor water levels. This information, and related notifications, will normally flow into the local Emergency Management Agency and may be broadcast over NOAA weather channels. The airport operator should be aware of how flood warnings in that area are disseminated and ensure that the airport is on the alert and warning notification list of the local jurisdiction.

c. Emergency Public Information.

The main source of public information for flooding conditions should come from the local jurisdictions. The airport operator should be prepared to provide information regarding the status of the airport. The following planning considerations should be addressed, if appropriate, in one or more appendices to an EPI Annex:

(1) When a Flood Develops Slowly. The flood emergencies that develop slowly enough to permit evacuation, the airport operator should have

enough time to determine the potential impact on the airport and coordinate appropriate decisions concerning restrictions on, or termination of, operations, as well as any airport-specific protective actions.

- (2) Transition to Recovery. As the initial response shifts to recovery, the airport operator, through its Incident Action Plan, be prepared to provide guidance to retnming airport employees and tenants regarding safety precautions associated with:
 - (a) Sanitary conditions.
 - (b) Unsafe drinking water.
 - (c) Use of utilities.

d. Protective Actions.

If fast- and slow-developing floods are possible at a particular airport, protective action decisions must be based on the estimated time **necessary** for evacuation and the availability of shelter space above the estimated flood level. When complete evacuation is not feasible, directions to high ground facilities should be provided. Consideration must be given to the potential that there may be transient personnel on the airport with no transportation. When evacuation is feasible, plating should have accounted for routes facing possible **inundation**. These routes should be **coordinated** with the local **EMA**.

The following planning considerations should be addressed, if appropriate, in one or more appendices to a Protective Actions Annex:

- (1) Maps that detail probable flood inundation areas and designated evacuation routes.
 - (2) Designated relocation facilities.
- (3) Transportation resources needed for transient personnel, as well as for the relocation of vital resources, records, and supplies.

e. Health and Medical.

Health and medical information related to flood response and recovery operations is normally the responsibility of appropriate state and local **officials**.

The following planning considerations should be addressed, if appropriate, in one or more appendices to

a Health and Medical Annex:

(1) Provisions to keep people informed of the health and sanitary conditions created by floods. Flood waters may carry untreated sewage, dead animals, disinterred bodies, and hazardous materials.

f. Resource Management.

The following planning considerations should be addressed, as appropriate, in one or more appendices to a Resource Management **Annex**:

- (1) Provisions for purchasing, stockpiling, or otherwise obtaining essential flood fighting items such as sand bags, fill, polyethylene sheeting, and pumps (of the right sized and type, with necessary fuel, set-up personnel, operators, and tubing/pipes).
- **(2)** Resource lists that identify the quantity and location of the items mentioned above, as well as points of contact (day, night, and weekend) to obtain them.

7-4-50 SOPS AND CHECKLISTS.

The following provides some examples of the types of information that may be included in functional **SOPs** and Checklists:

a. Before the Emergency.

- (1) Develop a facility inspection SOP that is specific to potential flood damage. This is something that can be used by airport employees as a preparatory inspection process, such as checking and testing flood pumps, 'checking levees and dikes, inspecting flood control devices, etc.
- **(2)** Develop a list of airport facilities which are in low lying areas and potentially subject to flooding, including:
- (a) The availability of emergency generators.
- (b) Just-in-time flood-specific training programs, drills, and exercises.

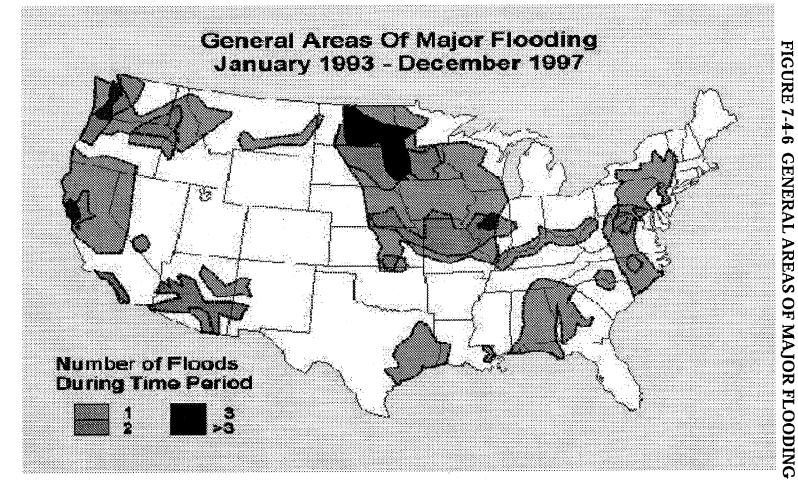
h. During the Emergency (Response).

(1) The degree of response will depend upon the severity of the flooding:

- **(2)** Provide an overview or outline of actions taken by each airport function, such as Operations, Maintenance, Administration, ARFF, Law Enforcement, EMS, tenants, etc. This may be used as a base for the development of operational checklists. Such actions might include:
- (a) Monitor water supplies for potability.
- **(b)** Monitor fire hydrant water pressures.
- (c) Establish food service for airport emergency workers.
- **(d)** Arrange for dry clothing, as required.
- c. After the Emergency (Recovery). The recovery effort will be dependent upon the severity of the flooding; the amount of damage; facilities, equipment, and systems impacted; and the availability of resources. Recovery efforts should involve:
- As with other emergencies, consider the formation of a Situation Analysis Team consisting of representatives from appropriate airport organizations, functional areas, tenants, etc., that:
- (a) Ensures periodic damage assessments are conducted.
- (b) Prepares an Incident Action Plan to include long and short term considerations for:
- **1** Final damage assessment (written, pictorial, including video).
- **2** Safety issues (e.g. downed power lines, unsafe drinking water, etc.).
 - **3** Sanitary issues.
 - **4** Public information announcements.
 - **5** Facility repair.
 - **<u>6</u>** Supply inventory and restoration.
 - **7** Cost documentation.

- **8** Economic impact.
- **9** Documentation of actions taken.
- **10** Personnel utilization by time on duty.
- $\underline{\mathbf{11}}$ Critical Incident Stress Debriefing requirements.
- $\underline{\mathbf{12}}$ Equipment utilization documentation.

- 13 Overall cleanup activities.
- 14 Air Operations Area (AOA)
- inspections.
 - (2) Issuance appropriate NOTAMs.
- (3) Critique of the overall operation and apply lessons learned to planning and training programs.



Source: United States Geological Survey (USGS)

SECTION 5. HAZARDOUS MATERIALS INCIDENTS

- 7-5-1 INTRODUCTION. The continuous growth of types and quantities of hazardous materials produced, processed and stored in this country increases the need for emergency preparedness at all points in the production, utilization, and distribution system. A hazardous material spill or release **can pose** a risk to life, health or property. An incident can result in the evacuation of a few people, part of a building, or a whole neighborhood.
- a. Definition. Hazardous Materials are defined as any substance or material that, when involved in an accident and released in sufficient quantities, poses a risk to people's health, safety, and/or property. These substances and materials include explosives, radioactive materials, flammable liquids or solids, combustible liquids or solids, poisons, oxidizers, toxins, and corrosive materials. Detailed definitions as well as lists of hazardous materials can be obtained from the Environmental Protection Agency (EPA) and the Occupational Health and Safety Administration (OSHA).

NOTE: For the purposes of this document, the term hazardous material includes those substances defined as "dangerous goods" as presented in related ICAO documents, including Technical Instructions, and the International Air Transport Association Dangerous Goods Regulations. Planning consideration should also be given to weapons of mass destruction, such as nuclear devices, poisonous gases, bacteriological weapons, etc.

b. Risk Area. The **primary** areas at risk for hazardous materials transportation incidents lie along highways, rail lines, pipelines, rivers, and port areas. A large number of states also are potentially involved with nuclear waste incidents related to shipment routing incidents. Jurisdictions with facilities that produce, process, or store hazardous materials are at risk, as are jurisdictions with facilities for the treatment, storage, or disposal of hazardous wastes. These risks are compounded by natural hazards (e.g. floods, earthquakes, etc.).

Further, many types of hazardous materials can be shipped by air. These include explosives, compressed or liquefied gases (which may be flammable or toxic), flammable liquids or solids, oxidizers, poisonous substances, infectious substances, radioactive material, or corrosives. Packages containing hazardous goods can be found in airport cargo buildings, on aircraft loading ramps, in aircraft cargo

compartments, etc.

- c. Risk Assessment. It is important to understand that the risk to the airport operator for a hazardous materials incident comes from many sources. Of concern is not only the threat from the materials that am being shipped by air to and from the airport but the threat from other sources as well. Many airports am located in or near the primary risk areas as described above (e.g. highways, railroads, manufacturing/processing facilities, etc.). Accordingly, AEP planners should include in their planning:
- (1) Major findings from the Hazards Analysis.
- (2) Facilities in the vicinity of the airport which may present a threat.
- (3) Maps and descriptions of geographic features, sensitive environmental areas, and transportation routes.
 - (4) Major demographic features.
 - (5) Climate and weather.
- (6) Critical time variables which may impact emergencies, (e.g. time of day and month of year).
- (7) The airport operator should also assess the hazardous materials on, and transiting, the airport. Representatives of airport **tenants**, including air freight and the air carriers should be contacted and involved in the planning process.
- d. Regulations. There are several regulations and standards which address emergency response to hazardous materials emergencies:
- (1) 29 CFR Part 1910, Hazardous Wasfe Operafions and Emergency Response (OSHA 1910.120 Hazwoper). This rule regulates the safety and health of employees involved in, among other things, any emergency response to incidents involving hazardous substances. These standards apply to all private employees, and to all Federal employees through Executive Order No. 12196.
- (2) 40 CFR 311, Worker Protection Standards for Hazardous Waste Operations and

Emergency Response (EPA). This mle applies the same substantive provisions of OSHA 1910.120 to state and local employees in States that do not have a Plan approved under the 0 SH Act. Further, EPA has defined the term "employee" of state and local governments to include both compensated and noncompensated workers.

- (3) State Regulations. Many states have promulgated their own regulations and standards that meet or exceed those of OSHA.
- e. Training. Based upon the role of the emergency responder, certain levels of training are required as'follows:
- (1) First responder awareness level. This covers individuals who are likely to witness or discover a hazardous substance release and who have been trained to initiate an emergency response sequence by notifying proper authorities of the release. Examples of these individuals on the airport might be Operations personnel **conducting** inspections, security personnel on patrol, air cargo employees.
- (2) First responder operations level. This covers individuals who respond to releases or potential releases of hazardous substances as part of the initial response to the site for the purpose of protecting nearby persons, property, or the environment from the effects of the release. They are trained to respond in a defensive fashion without actually trying to stop the release. Many ARFF personnel have received this level of training.
- (3) Hazardous Materials Technician/Specialist. This covers individuals who try to stop the release. This is usually accomplished by members of a local or State-certified Hazardous Materials Response Team.
- (4) Certain levels of training must be certified by employers and annual refresher training is required.
- f. Emergency Preparedness Organizations. Because the regulations covering emergency response to hazardous materials incidents may vary from State to State, AEP planners should work closely with the local emergency preparedness organizations. Most, if not all, of these organizations have already identified the potential risk areas. For example, Title III of the Superfund Amendments and Reauthorization Act (SARA),

- requires facilities to notify the State Emergency Response Commission (SERC) and the Local Emergency Planning Commission (LEPC) if they have present any of the substances designated by the EPA as an "extremely hazardous substance" when the amount on hand exceeds the EPA-defined "threshold planning quantity." These facilities must submit information regarding the presence and location of these materials to the LEPC, SERC, and local fire department. The LEPC is also entitled to information from facilities subject to SARA Title III that may be necessary for emergency planning, and the LEPC is required by SARA Title III to address routes for transportation of extremely hazardous substances in emergency planning.
- **g.** Vulnerable Zones. Knowing the location of facilities and the types of materials involved, planners can estimate vulnerable zones. (It should be noted that, in many cases, the local. emergency preparedness organization or the facilities themselves may have already accomplished this). The widest area of vulnerability would be for an airborne release. For airborne releases of acutely toxic substances, vulnerable zones would be plotted as circles around facilities - given uncertainty about wind direction - and as corridors along land transportation routes. These vulnerable zones, the size of which can vary widely, can then be looked at in terms of their potential impact on the airport, i.e. particular facilities and areas can be identified as being at risk and, accordingly, planned for. A review of identified facilities as they relate to published aircraft approach and departure routes should also be conducted with consideration given to the potential impact of airborne releases.
- **7-5-2** PURPOSE. The information contained in this hazard-specific appendix is intended to supplement the Basic Plan and Functional Annexes of the AEP. It defines responsibilities and describes actions to be taken in the event a hazardous materials incident occurs. Further, this document, in conjunction with the Basic Plan and Functional Annexes, forms the basis for elements to be included in functional Standard Operating Procedures (SOPs) and Checklists.

7-5-3 SITUATION AND ASSUMPTIONS.

- a. This section should include information about the airport's vulnerability to a **hazardous** materials incident. It should:
- (1) Describe by name, location, and name of substance(s), those facilities located on the

airport which have been identified as processing, using, storing, and / or shipping hazardous materials (e.g. fuel **farm**, air cargo, etc.).

- (2) Describe by name, location, and name of substance(s), those facilities and transportation corridors in the vicinity of the airport which have been identified as posing a threat to the airport.
- (3) Identify by name and location **the** Hazardous Materials Response Team(s) designated to respond to hazardous materials incidents at **the** airport.

3

- (4) Describe the level of training provided to airport personnel. As discussed earlier, OSHA (1910.120), EPA (SARA), and many states have established regulations governing personnel responding to emergencies involving hazardous materials.
- (5) Describe the conditions under which the airport EOC will be activated for a hazardous materials incident.
- b. For the purposes of emergency response, each aircraft accident should be considered a potential hazardous materials incident. Response activities should be in accordance with established hazardous materials standards.
- 7-5-4 OPERATIONS. This section should describe actions to be taken if a hazardous materials incident should occur at the airport. This section should:
- a. Describe the relationship between the AEP and other emergency response plans (e.g. the EOP of the local jurisdictions regarding hazardous material response and recovery actions on the airport
- b. Describe the hazardous materials incident response and recovery actions and procedures of airport personnel.
- c. Describe the response and recovery actions of all the local response organizations in the vicinity of the airport, **including** public and private sector, as well as volunteer and charitable **organizations** as they relate to response on the airport. This information should **already** be available in local **plans**.

d. List mutual aid agreements or other arrangements for sharing data and response resources.

7-5-5 ORGANIZATION AND ASSIGN-MENT OF RESPONSIBILITIES.

Some examples might include:

- a. Airport Traffic Control Tower (ATCT). In accordance with the letter of agreement:
- (1) Provide relevant information and directions to aircraft operators.
- (2) Provide necessary air and ground **traffic** control support for emergency response activities.
- **b.** Aircraft Rescue and Fire Fighting (ARFF).
- (1) Respond to fuel spills and other **hazardous** materials incidents in accordance with established policies and level of training.
- (2) Provide response and recovery support in accordance with level of training and established airport policies and procedures.
- (3) Determine need for, and initiate as needed, local Hazardous Materials Response Team response.
- (4) Assist in Alert and Warning process in the event a Protective Action is required.
 - c. Law Enforcement.
- (1) Assist with scene security as requested by the Incident Commander.
- (2) Assist in Alert aud Warning process in the event a Protective Action is required.
- (3) Provide for overall traffic control, including **coordination** with mutual aid law enforcement agencies.
- (4) Assist with Air Operations Area escort services, as needed.
 - (5) Provide crowd control, as needed.
- (6) Provide continued law enforcement and security services on the airport, including those

required by 14 CFR part 107, Airport Security.

- d. Emergency Medical Services (EMS).
- (1) Provide on-scene emergency medical services in accordance with established plans and procedures to include the following:
 - (a) Collect, triage, and treat casualties.
- (b) Transport to, and coordinate with, appropriate medical care facilities.
 - (c) Provide for the deceased.
- (d) Restock of medical supplies, as needed.
- (e) Initiate Critical Incident Stress Debriefing support, as needed.
- (2) Initiate and coordinate as needed, mutual aid EMS support.
 - e. Airport Operator.
 - (1) General.
 - (a) Activate EOC, as needed.
- (b) Participate in response and recovery operations as training levels permit.
- (c) Provide emergency support services, as requested, through the EOC.
- $\begin{tabular}{ll} (d) & Prepare for, and accomplish return to normal operations. \end{tabular}$
- (e) Ensure airport response personnel have received appropriate **training**.

(2) Airport Operations

- (a) Provide scene representation, to include participation in the Incident Command System.
- (b) Coordinate Protective Actions, as needed.
- (c) Make required notifications, including **NOTAMs**, as needed.

- (d) Conduct airfield inspections, as needed.
 - (e) Participate in EOC operations.
- **(f)** Coordinate operations with the ATCT, as needed.
- (g) Monitor, and coordinate as required, other concurrent **airport** activities.
- (h) Interface with, coordinate, and utilize resources made available by airport tenants.

(3) Maintenance.

- (a) Assist/provide critical services, including utility support (activation/cut-off), as needed.
- (b) Assist in the implementation of protective actions (e.g. shutting off air circulation systems for affected facilities if in-place sheltering is recommended).
- (c) Provide safely inspections, as needed.
- (d) Provide sanitation services for extended operations.
- (e) Assist in the provision of required resources.
 - (f) Participate in EOC operations.
 - (g) Assist in facility restoration

(4) Administration.

- (a) Provide budgeting, payment, and cost recovery support.
 - (b) Provide procurement services.
 - (c) Provide **personnel** services.
 - (d) Participate in EOC activities.
- (e) Form a Policy Group for the overall administration of the event, to 'include approval of airport media releases, when appropriate.

- (5) P u b l i c Information and Community Relations.
- (a) Interface with the media, as well as any emergency response organization on-scene public relations personnel.
- (b) Provide news releases relative to the airport's responsibilities and activities.
 - (c) Participate in EOC operations.
- f. Aircraft Operator or designated representative.

If an aircraft is directly involved in the incident, the aircraft operator or designated representative should do the following:

- (1) Provide on-scene support, as requested by the Incident Commander.
 - (2) Participate in EOC operations.
 - (3) Provide for timely news releases.
 - g. Airport Tenants

Airport tenants may provide assistance on a voluntary basis.

- 7-5-6 ADMINISTRATION AND LOGISTICS. This section of the document should cover those general support requirements specific to hazardous materials incidents. Because of the unique nature of hazardous materials response, specialized resources, policies, and procedures would be appropriate.
- 7-5-7 PLAN DEVELOPMENT. This section should identify who is responsible for coordinating revisions of the Hazardous Materials Appendix, keeping its attachments current, and ensuring that SOPs and Checklists are developed and maintained.
- 7-5-8 AUTHORITIES AND REFERENCES. This section should identify any hazardous **materials**-specific statutes, regulations, etc. that are applicable to the airport (e.g. 40 CFR 311, SARA, OSHA 1910.120, etc.).

7-5-9 UNIQUE PLANNING CONSID-ERATIONS. This section identifies many of the unique planning considerations that should be identified by the **AEP** Planning Team.

- a. General. For the most part, the primary planning role of the airport operator will be to coordinate the planning, response, and recovery efforts with the local community hazardous materials planning officials. Facilities and transportation corridors on and in the vicinity of the airport which present a hazardous materials threat should have already been identified. AEP planners should review this information to determine the level of threat and the potential response efforts which may be necessary.
- b. Direction and Control. For this hazard OSHA's Hazardous Waste Operations and Emergency Response Standard (29 CFR 1910) requires that an ICS be used for on-scene management of response activities. A description of ICS is found in Chapter 6, Attachment 6-A, *Direction and Control*.
- (1) Response Actions. Provisions should be made, as appropriate, to describe the **on**-scene management structure and address the following planning considerations in one or more appendices to a Direction and Control Annex, including:
- (a) Procedures for notifying response organizations, airport and local officials, as appropriate, that are directly involved in the response, such as:
- $\underline{\mathbf{1}}$ From the initial incident report, dissemination of as much information as possible.
- 2 If possible, identification of the hazardous material involved and the severity (degree of threat to people, property, **environment**, etc.) of the accident before exposing response personnel to possible health hazards.
- (i) For **transportation** accidents, information sources include placards, container labels, cargo manifests, and shipping papers. These items can be checked against the North American Emergency Response Guidebook; shipping papers should also include an emergency contact number. If the above information is not visible or available, an interview with the vehicle driver or aircraft pilot could provide the information needed.

(ii) For fixed facility incidents, this information should be readily available from the responsible party.

- **(b)** ICS to be used at hazardous materials accidents on the airport to include:
- $\underline{\underline{\mathbf{1}}}$ The IC is identified and the EOC is notified of the identity of the IC and the location of the ICP.

NOTE: If both the airport and local jurisdiction activate their **EOCs**, the respective roles should be identified and documented in advance as a part of the planning process.

- **2** Response personnel have and wear the appropriate protective gear (clothing and breathing apparatus).
- <u>3</u> Unnecessary personnel at the site are moved away (in a crosswind direction) and denied **entry**.
- $\underline{\mathbf{4}}$ Qualified personnel only are involved in the response effort.
- **5** Protective Action Zone is established, if necessary. This is an area in which people can be assumed to be at risk of harmful exposure and in need of either in-place protective shelter or evacuation.
- <u>6</u> Hazardous material are contained. For liquids, it may be necessary to use ditches or dikes to contain spread, so that removal may take place later. It may also be necessary to cover some materials with tarps to prevent vapors from rising.
- (2) Additional Notifications. Various Federal laws and regulations on hazardous materials require notifications from the responsible party (employer, transporter, facility manager) and not necessarily from local or State agencies. Local and state agencies may have also established notification requirements. AEP planners should establish for what, if any, of these notifications the airport operator is responsible.

For general transportation accidents, the North American Emergency Response Guidebook recommends contacting the Chemical Manufacturer's Association's Chemical Transportation Emergency Center (CHEMTREC) with initial requests for assistance.

- (a) If radioactive materials are involved, notification is typically made to the State Department of Public Health or Department of the Environment so that detection and monitoring can take place. For incidents involving nuclear weapons, notification should be made to the nearest military base and to he Joint Nuclear Accident Coordinating Center (JNACC) at (703) 325-2102.
- **(b)** If infectious (etiological) agents are involved, local and/or State Health Departments should be notified. Officials in these departments have the responsibility for notifying the Emergency Response Coordinator for the CDC at **(404) 639-0615.**
- (3) Reentry to Areas Directly Affected by the HAZMAT.
- **(a)** Describe the process for identifying when an area is safe to reenter.
- **(b)** Describe the process for controlling access to the area until it is safe. Only those people directly involved in the emergency should be allowed to enter.
- **(c)** Describe the process for monitoring of the environment and compliance with State and Federal regulations regarding disposal of the wastes.

c. Alert and Warning.

Hazardous materials incidents generally occur without warning, and the speed at which events develop and the spread of the effects varies from incident to incident. For small scale incidents on the airport, public notification may be made through public address systems, portable megaphones, telephone, two-way radio, or person-to-person Consideration must be given to the fact that **some** areas on the airport are subject to high noise levels. Large scale incidents will more than likely be initiated through an off-airport event. For these events, a jurisdiction-wide warning system should be used and activated by the local authorities. The airport should be prepared to deal with whatever protective action is recommended.

The following planning considerations should be addressed, if appropriate, in one or more appendices

to an Alert and Warning Annex:

(1) Responsible officials and describe the methods by which they will provide a timely notification to airport personnel, transients, and aircraft operators of a release from any facility or along any transportation corridor which may affect the airport.

- (2) The process by which the airport operator will coordinate the alert and warning process with the local community (ies).
 - d. Emergency Public Information (EPI).

The flow of accurate and timely emergency information is critical to the protection of lives and property immediately following a hazardous materials incident. This section deals with the provisions that should be included in the plan for the preparation and dissemination of notifications, updates, and instructional messages as a follow-up to the initial warning. The following planning considerations should be addressed, if appropriate, in one or more appendices to an EPI Annex:

- (1) Methods used, prior to emergencies, for educating airport personnel about possible emergencies and planned protective actions.
- (2) Role and organizational position of the airport public relations officer during emergencies.
- (3) Public notification of health hazards associated with the HAZMAT involved in the accident.
- (4) Personal protective actions instructions, including:
- (a) Instructions for in-place protection (when to stay, where to stay, and what to do) when that option is chosen.
- (b) Event-specific evacuation instructions and information (routes, road closures, available transportation) when that option is chosen.

e. Protective Actions.

(1) Evacuation. The only difference in hazardous materials evacuation planning from other emergencies is that initial movements should be coordinated. These decisions are made by the IC

based upon conditions for the specific incident.

- may not always be advisable. In-place sheltering may be the preferred option. For some chemical hazards, using wet towels and shutting off air circulation systems may suffice; sometimes airborne releases may move more quickly than the evacuation can be effected. Also, if the hazardous materials accident results from another hazard event (such as an earthquake, flood, etc.), any protective action decision will have to factor in related additional concerns.
- (3) The following planning considerations should be addressed, if appropriate, in one or more appendices to an evacuation annex:
- (a) Decision-making process and criteria, including the decision-making authority, for protective actions.
- **(b)** Methods used for educating airport employees on protective actions.
- (c) Methods for in-place sheltering that would be recommended for airport personnel, including transients and aircraft operators, present at the airport at the time of a hazardous materials incident.

Law Enforcement.

List the major law enforcement tasks related to responding to hazardous materials releases.

g. Fire and Rescue.

- (1) List the major tasks to be performed by firefighters related to responding to hazardous materials releases.
- (2) Identify the public and private sector fire protection organizations with a response capability and responsibility for hazardous materials incidents.
- (3) List the available support systems, e.g. protective equipment and emergency response guides, DOT Emergency Response Guidebook, mutual aid agreements and Good Samaritan provisions.
- (4) List and describe HAZMAT teams in the area.

h. Health and Medical.

If appropriate, in one or more appendices to a Health and Medical Annex, the following planning considerations should address provisions for:

- (1) Keeping people informed of the health risks created by a **HAZMAT** release.
- (2) Designating medical facilities that have the capability to:
- (a) Decontaminate and medically treat exposed persons.
- (b) Dispose of contaminated items (clothing, medical supplies, and other waste material).
- (3) Monitoring of water quality and sanitary conditions in the area affected by the hazardous materials release.
- (4) Continuing medical surveillance of personnel performing decontamination tasks (including radiological monitoring, if appropriate).

i. Resource Management.

SARA requires hazardous materials emergency planning to include a description of emergency equipment at each facility in the community subject to Title III, along with identification of persons responsible for the equipment and facilities. If the airport operator is responsible for any such facilities, the following planning considerations should address provision for, as appropriate, in one or more appendices to a Resource Management Annex:

- (1) Purchasing, stockpiling or otherwise obtaining essential hazardous materials response items. In most cases, these items are the responsibility of the designated Hazardous Materials Response Team, however the airport operator may wish to maintain an inventory of support resources specific to the hazards at the airport. The name and contact information for the suppliers of these items should be included in the planning document.
- (2) Identifying agencies and contractors that could be involved in cleanup operations and related tasks (including storage, cleaning, and reconditioning of response equipment and supplies). The local hazardous materials planning organization should already have this information,

7-5-10 SOPS AND CHECKLISTS.

The following provides some examples of the types of information that may be included in functional **SOPs** and Checklists:

a. Before the Emergency.

- (1) A routine inspection checklist for those on-airport facilities identified as being a potential threat.
- (2) Pre-fire plans for those on-airport facilities identified as being a potential threat.

b. During the Emergency (Response).

Develop response **SOPs** and/or Checklists which outline anticipated actions to be taken by each airport function, such as 'Operations, Maintenance, Administration, ARFF, Law Enforcement, EMS, tenants, etc.

- c. After the Emergency (Recovery). The recovery effort will be dependent upon the severity of the incident, the amount of damage, facilities/equipment/systems impacted, and the availability of resources. Recovery efforts should involve:
- (1) As with other emergencies, the formation of a Situation Analysis Team consisting of representatives from appropriate airport organizations, functional areas, tenants, etc., that:
- (a) When safe to do so, ensures periodic damage assessments am conducted;
- (b) Prepares an Incident Action Plan, to include long and short term considerations for:
- <u>1</u> Final damage assessment (written pictorial, including video).
- <u>2</u> Public information announcements.
 - 3 Facility repair.
 - **<u>4</u>** Supply **inventory** and restoration.
 - **5** Cost documentation.
 - **6** Economic impact.

7 Documentation of actions taken.

8 Personnel utilization by time on

 $\underline{\boldsymbol{9}}$ Critical Incident Stress Debriefing requirements, if necessary.

duty.

10 Equipment utilization documentation.

11 Overall cleanup activities.

NOTE: Clean up activities for many hazardous materials incidents should be accomplished by

approved contractors / organizations.

 $\underline{\textbf{12}}$ Air Operations Area (AOA) inspections, if appropriate.

- (2) Issueance appropriate NOTAMs.
- (3) Critique of the overall operation and apply lessons learned to planning and training programs.

SECTION 6. SABOTAGE, HIJACK, AND OTHER UNLAWFUL INTERFERENCE WITH OPERATIONS

7-6-1 INTRODUCTION. It is the intent of this Section'to provide guidance to the airport operator for any situation which involves the unlawful interference with the operation of an aircraft such as sabotage, hijack, terrorism, etc. as it may potentially impact that airport.

7-6-Z PURPOSE.

The information contained in this hazard-specific appendix is intended to supplement the Basic Plan and Functional Annexes of the AEP. It defines responsibilities and describes actions to be taken in the event a sabotage, hijack, or other unlawful interference with operations incident occurs. Further, this document, in conjunction with the Basic Plan and Functional Annexes, forms the basis for elements to be included in functional Standard Operating Procedures (SOPs) and Checklists.

7-6-3 SITUATION AND ASSUMPTIONS.

a. General.

- (1) Agencies and organizations other than the airport operator are tasked by laws, regulations, and other documents to respond to hijack and sabotage incidents.
- (2) Because the response time of these other agencies and organizations may be significant, the airport operator should be prepared to take action in the interim.
- b. Regulations. Airports regulated under 14 CFR part 107 have established response procedures for sabotage, hijack and other criminal interference of Civil Aviation as specified in their Airport Security Program (ASP).
- c. Memorandum of Understanding -Federal Aviation Administration and the Federal Bureau of Investigation, February, 1995. Existing Memorandum of Understandings between the FAA and the Federal Bureau of Investigation, and between the Department of Transportation and the U.S. State department, have established specific lines of responsibility

and jurisdiction involving hijack and sabotage incidents.

7-6-4 OPERATIONS.

- a. General. This section should describe actions to be taken if a hijack, sabotage, or other **unlawful** interference with operations incident should occur at the airport.
- b. As incidents of hijacking, sabotage and other unlawful interference involve so many different organizations, i.e. FAA, FBI, air carrier etc., and as each situation will be unique, the airport operator should conduct **planning** sessions involving all of the potential players to further define roles and responsibilities. At airports regulated under 14 CFR part 107, such roles and responsibilities will be **specified** in their ASP.
 - c. Items to be discussed should include:
- (1) Guidance to the airport operator/law enforcement personnel as to actions to be taken until the agency or organization of jurisdiction arrives.
- (2) The need for and location of an EOC or other Command Center from which operations will be conducted.
- (3) The need for additional or specialized resources, such as additional telephone lines or other means of communications.
- (4) The need for, and location of, remote aircraft parking.
 - (5) Responsibilities regarding the media.

7-6-5 ORGANIZATION AND ASSIGN-MENT OF RESPONSIBILITIES

This section describes organizations, and their responsibilities, that would respond to a sabotage or hijack incidents, or other unlawful interference of operations. The following examples are typical entries in this section:

- a. Airport Traffic Control Tower (ATCT).
- (1) Provide relevant information and directions to aircraft operators.
- (2) Provide necessary air and ground traffic control support for emergency response activities.

- **b.** Aircraft Rescue and Fire Fighting (ARFF).
 - (1) Initiate standby status.
- (2) Determine need for, and initiate as needed, local Hazardous Materials Response Team response.
- (3) Assist in Alert and Warning process in the event a Protective Action is required.
 - c Law Enforcement.
- (1) Assist with scene security as requested by **the** Incident Commander.
- (2) Assist in Alert and Warning process in the event a Protective Action is required.
- (3) Provide for overall traffic control, as **necessary**.
- (4) Assist with Air Operations Area escort services, as needed.
- (5) Provide crowd control, as needed.
- (6) Provide continued law enforcement and security services on the airport including those prescribed in the Airport Security Program required by 14 **CFR** part 107.
 - d. Emergency Medical Services (EMS).
- (1) Initiate standby status or as otherwise directed.
 - e. Airport Operator.
 - (1) General.
 - (a) Make required notifications.
 - (b) Activate EOC, as needed.
- (c) Provide emergency support services, as requested, through the EOC.
- (d) Prepare for, and accomplish, return to normal operations.

(2) Airport Operations

- (a) Make required notifications, including **NOTAMs**, as needed.
 - (b) Conduct airfield inspections, as needed.
 - (c) Participate in EOC operations.
- $\begin{tabular}{ll} (d) & Coordinate operations with the ATCT, \\ as needed. \end{tabular}$
- (e) Monitor, and coordinate as required, other concurrent airport activities.
 - (3) Maintenance.
- (a) Assist/provide **critical** services, including utility support (activation/cut-off), as needed.
- (b) Assist in the provision of required resources.
 - (c) Participate in EOC operations.
 - (4) Administration.
- (a) Provide budgeting, payment, and cost recovery support.
 - (b) Provide procurement services.
 - (c) Provide personnel services.
- (5) Public Information and Community Relations.
- (a) Interface with the media, as well as any emergency response organization on-scene public relations personnel, as appropriate.
- (b) Provide news releases relative to the airport's responsibilities and activities, as appropriate.
 - (c) Participate in EOC operations.
- **f.** Aircraft Operator or designated representative.
- (1) Participate in the agreed upon Incident/Unified Command System .

- **(2)** Participate in EOC operations, as appropriate.
- (3) Provide for timely news releases, as appropriate.
- 7-6-6 ADMINISTRATION AND LOGISTICS. This section of the document should cover those general support requirements specific to sabotage, hijack and other unlawful interference incidents. Because of the unique nature of these incidents, specialized resources, policies, and procedures may be appropriate.
- 7-6-7 PLAN DEVELOPMENT. This section should identify who is responsible for coordinating revisions of this Appendix, keeping its attachments current, and ensuring that SOPs and Checklists are developed and maintained.
- 7-6-8 AUTHORITIES AND REFER-ENCES. This section should identify any sabotage/hijack-specific statutes, regulations, etc. that are applicable. At airports regulated under 14 CFR part 107, the ASP and Air Carrier security programs, as appropriate, should be referenced.
- 7-6-9 UNIQUE PLANNING CONSIDER-ATIONS. This section identifies many of the unique planning considerations that should be identified by the **AEP** Planning Team.
- a. General. For the most part, the planning role of the airport operator will be to coordinate the planning, response, and recovery efforts with those agencies and organizations tasked with primary response responsibilities.
- b. Direction and Control.. The direction and control elements of response to a sabotage/hijack situation are described above, in 7-6-4(b). It is recommended that an Incident Command/Unified Command System similar to that used for other emergencies at the airport be utilized. A description of ICS is found in Chapter 6, Attachment 6-A, *Direction* and *Control*.
- (1) Response Actions. Provisions should be made, as appropriate, to describe the on-scene' management structure and address the following planning considerations in one or more appendices to a Direction and Control Annex:
- (a) Describe the procedures for notifying response organizations, airport and

local **officials**, as appropriate, that are directly involved in the response.

- $\underline{1}$ From the initial incident report, disseminate as much information as possible.
- the EOC of the identity of the IC and the location of the ICP.
- Ensuring that unnecessary personnel are relocated away from the area involved.
- Ensuring that only qualified personnel are involved in the response effort.
- **(b)** Describe the process for controlling access to the area until it is safe. Only those people directly involved in the emergency should be allowed to enter.

c. Alert and Warning.

- (a) Describe the procedures for notifying response organizations, airport and local officials, as appropriate, that are directly involved in the response. Some type of coded terminology is recommended rather than the use of a word such as "hijack" in the clear, especially where two-way radios or cellular telephones are involved.
 - d. Emergency Public Information (EPI).

The following planning: considerations should be addressed, if appropriate, in one **or** more appendices to an EPI Section:

- (1) Describing the role and organizational position of the airport public relations officer during sabotage/hijack emergencies.
- (2) Describing the roles and relationship with public relations officials of the response agencies.
 - e. Law Enforcement.

List the major airport law enforcement tasks related to responding to **hijack/sabotage** situation, particularly those actions to be taken until the **primary** law enforcement agency arrives.

7-6-10 SOPS AND CHECKLISTS.

a. During the Emergency. Develop response SOPs and/or Checklists which outline anticipated actions to be

taken by each airport function, such as Operations, Maintenance, Administration, ARFF, Law Enforcement, EMS, etc.

- b. After the Emergency (Recovery). **The** recovery effort will be dependent upon the outcome of the incident, the amount of damage, facilities/equipment/systems impacted, and the availability of resources. Recovery efforts should involve:
- (1) As with other emergencies, the formation of a Situation Analysis Team consisting of representatives from appropriate airport organizations, functional areas, tenants, etc., that:
- '(a) When safe to do so, ensures periodic damage assessments are conducted;
- (b) Prepares an Incident Action Plan to include long and short **term** considerations for:
- <u>1</u> Final damage assessment (written, pictorial, including video).
- **2** Public information announcements.

- **3** Facility repair.
- **4** Supply inventory and restoration.
- **<u>5</u>** Cost documentation
- **<u>6</u>** Economic impact.
- 7 Documentation of actions taken.
- **8** Personnel utilization by time on duty.
- **9** Critical Incident Stress Debriefing requirements, **if** necessary.
 - 10 Equipment utilization documentation.
 - 11 Overall cleanup activities.
- $\underline{12}$ Air Operations Area (AOA) inspections, if appropriate.
 - (2) Issuance of appropriate NOTAMs.
- (3) Critique of the overall operation and apply lessons learned to planning and **training** programs.

SECTION 7. FAILURE OF POWER FOR MOVEMENT AREA LIGHTING

- 7-7-1 INTRODUCTION. It is the intent of this Section to provide guidance to the airport operator for any situation which involves the **failure** of power for movement area lighting, etc. as it may potentially impact that airport.
- 7-7-2 PURPOSE. The information contained in this hazard-specific appendix is intended to supplement the Basic Plan and Functional Annexes of the AEP. It defines **responsibilities** and describes actions to be taken in the event a **failure** of power for movement area lighting. Further, this document, in conjunction with the Basic Plan and Functional Annexes, forms the basis for elements to be included in functional Standard Operating Procedures (SOPs) and checklists.

7-7-3 SITUATION AND ASSUMPTIONS.

In this section, provide a description of:

- a. The name of the primary power source supplier for movement area lighting.
- b. The name any secondary or alternate power provider.
- c. 'A description of any back-up power generator(s), to include:
 - (1) Location.
 - (2) Size, capacity.
 - (3) Area served.
- (automatic/manual start). features
 - (5) Testing schedule.
- **(6)** Preventive maintenance schedule.

7-7-4 ORGANIZATION AND ASSIGNMENT OF RESPONSIBILITIES.

In this section, describe the responsibilities of the appropriate organizations/functions. For example:

- a. Airport Traffic Control Tower.
 - (1) Issue appropriate **NOTAM**.
- **(2) Notify** appropriate maintenance personnel.
- (3) Keep aviation users informed of the situation, as necessary.
 - b. FAA Facilities/Maintenance.
- (1) Conduct rout&/preventive maintenance.
 - (2) Conduct/document regular tests.
 - (3) Operate generator, as necessary.
- (4) After the emergency, **determine** cause and take corrective action.
 - c. Airport Maintenance.
- $\begin{array}{ccc} (1) & Conduct & routine/preventive \\ \textbf{maintenance}. \end{array}$
 - (2) Conduct/document regular tests.
 - (3) Operate generator, as necessary.
- (4) After the emergency, determine cause and take corrective action.
 - d. Airport Operations.
- (1) Ensure that power generator and circuit resistance tests are being conducted.
 - (2) Ensure required NOTAMs are issued.

7-7-5 SOPS AND CHECKLISTS.

The following provides **some** examples of the types of information **that** may be included in **functional SOPs** and Checklists:

- a. Before the Emergency.
- (1) A checklist for conducting routine/ preventive maintenance on the generator(s), including

checking fuel supplies and documenting corrective actions, as **necessary**.

- **(2)** An item on the Airport Safety Self-Inspection checklist (Periodic Condition Evaluation).
 - b. During the Emergency (Response).

Checklists that assure:

(1) Appropriate **personnel** are notified of an outage in a timely manner, including **repair** personnel.

- (2) **NOTAM** issuance in a timely **manner**, if required.
 - (3) Generator(s) start-up in a timely manner.
 - c. After the Emergency (Recovery).
- (1) A change to the airport inspection checklist, as deemed necessary, based on the cause of the e m e r g e n c y .
 - **(2)** Critique the overall operation and apply lessons learned to planning and training programs.

SECTION 8. WATER RESCUE SITUATIONS

- 7-8-1 INTRODUCTION. This section prescribes procedures to respond to water rescue situations, including those in 14 CFR part 'which states that: "The plan 139.325, **(f)**, required by this section shall contain provisions, to the extent practicable, for the rescue of aircraft accident victims from significant bodies of water or marsh lands adjacent to the airport which are crossed by the approach and departure flight paths of air carriers. A body of water or marsh land is significant if the area exceeds onequarter square mile and cannot be traversed by conventional land rescue vehicles. To the extent practicable, the plan shall provide for rescue vehicles with a combined capacity for handling the maximum number of persons that can be carried on board the largest air carrier aircraft that the airport can reasonably be expected to serve."
- a. Risk Area. Significant bodies of water as defined above located within at least 2 miles of the end of an airport runway should be included in the emergency plan area of response.
- 7-8-2 PURPOSE. The information contained in this hazard-specific appendix is intended to supplement the Basic Plan and Functional Annexes of the Airport Emergency Plan It defines responsibilities and describes actions to be taken in the event of an aircraft accident occurs in a body of water in the vicinity of he airport as described above. Further, this document, in conjunction with the Basic Plan and Functional Annexes, forms the basis for elements to be included in functional Standard Operating Procedures (SOPs) and Checklists.
- 7-8-3 SITUATION AND ASSUMPTIONS. This section should include specific information about the airport's vulnerability to a water rescue situation. It should:
- **(a)** Describe the body or bodies of water involved, to include:
- (1) Type: lake, river, bay, ocean tidal, marsh, etc.
 - (2) Approximate size.
 - (3) Average depth.

- (4) Seasonal weather/climatic variations:
 - (i) Ice
 - (ii) Water temperatures.
 - (iii) Wave height.
 - (iv) Hours of daylight.
 - (v) Prevailing winds.
- **(b)** Include maps of the area(s) involved.
- (c) Include the name, address, and telephone number of each water rescue squad, service, or Federal / State / local agency (i.e. U.S. Coast Guard, Coast Guard Auxiliary, or Harbor Patrol) responsible for conducting water rescue operations in the significant body of water.

NOTE: If the significant body of water is located off airport property, it is very likely the airport will not be the primary response agency. In such cases, it is **the** responsibility of the airport to ensure that the appropriate rescue agency/agencies are formally notified of the possibility of an aircraft accident in the significant body of water.

- (d) Ensure response activities are in accordance with established hazardous materials standards. For the purposes of emergency response, each aircraft accident should be approached as a potential hazardous materials incident.
- 7-8-4 OPERATIONS. This section should describe actions to be taken if an aircraft incident/ accident should occur in the water on or adjacent to the airport. It should:
- a. Describe the relationship between the AEP and other emergency response plans (e.g. the local jurisdiction(s) EOP) regarding water aircraft emergencies, particularly if the airport is not the primary response agency.
- b. Describe the disposition of **survivors**. The plan should set forth policies and procedures for the rescue of survivors from floating and/or submerged sections of the fuselage. The airport or primary response agency should establish specific docking/landing areas (primary and alternate) onshore, where survivors can be brought for triage and transportation to health care facilities. In selecting the docking/landing areas, it should be kept in

mind that routes through the airport proper may not provide the most direct access to the hospital with facilities appropriate for treating survivors.

- c. Describe policies and procedures for:
- (1) Notification of jurisdictional authority.
 - (2) Hazardous materials.
 - (3) Personnel recall.
 - (4) Security.
 - (5) Traffic and Access Control.
 - **(6)** Emergency Medical Services.
 - (7) Rescue and fire fighting.
 - (8) Triage.
 - (9) Services for uninjured.
 - (10) Air carrier support.
 - (11) Removal of deceased.
- (12) Resumption of normal operations.
- d. Describe the incident response and recovery actions and procedures of airport personnel, including ARFF, Law Enforcement, Operations, and Emergency Public Information.
- e. If the primary response agency responsibilities and duties **are** being assumed by another entity, describe those responsibilities and duties in a Mutual Aid Agreement
- **f.** List mutual aid agreements 'or other arrangements for sharing data and response resources.
- 7-8-5 ORGANIZATION AND ASSIGN-MENT OF RESPONSIBILITIES. The AEP should set forth expected actions of all participating agencies and establish what agency will assume primary response rule. If the airport will not assume the primary response role, the airport's support role to the primary response agency should be clearly defined. The following

examples are typical entries in this section:

- a. Airport Traffic Control Tower. In accordance with the letter of agreement:
- (1) Activate the appropriate alarm system as appropriate.
- (2) Issue appropriate **NOTAMs** as requested by the airport operator or as established by Letter of Agreement.
- (3) Control aircraft and ground vehicle operations on the airport in support of the emergency response, if the airport remains open.
- (4) Control airspace in the vicinity of the incident / accident to ensure other aircraft do not interfere with emergency response activities.
 - (5) Make appropriate FAA notifications.
 - b. Aircraft Rescue and Fire Fighting (ARFF).
- (1) Respond to aircraft incident/ accident location in accordance with established policies and procedures.
- (2) If the airport is the primary response agency, assume lead in Incident/Unified Command System for initial fire and rescue operations in accordance with established policies and procedures.
- (3) Ensure appropriate mutual aid emergency response organizations have been notified and are taking appropriate action.
 - Law Enforcement.
- (1) Initiate and maintain appropriate Traffic and Access Control in accordance with established policies and procedures.
- (2) Provide scene support and security if within jurisdictional authority.
- (3) Assist with / provide AOA access control and escort, as necessary.
- **(4)** Ensure appropriate mutual aid organizations have been notified and am taking appropriate action.

- (5) Provide necessary investigative support.
 - d. Emergency Medical Services.
- (1) Provide necessary triage and on-scene initial treatment of casualties.
- (2) Ensure appropriate mutual aid organizations have been notified and are taking appropriate action
- (3) Provide for the movement (land water, air) of casualties to appropriate treatment facilities.
- (4) Maintain an accurate list of casualties and their respective destination treatment facility.
- (5) Coordinate with the involved air carrier the transportation of the uninjured to the designated holding area.
- **(6)** Arrange for restocking of medical supplies, if necessary.
 - d. Airport Operator.

(1) General.

- (a) Designate each hangar or other building on the airport or in the communities it serves that will be used to accommodate uninjured, injured, and deceased persons.
 - (b) Activate the EOC, as needed.
- (c) Ensure all appropriate notifications have been made, including:
- (i) National Transportation Safety Board (NTSB).
 - (ii) FAA.
- (iii) Airport response personnel.
- (d) Provide emergency support sexvices, as requested, through the EOC.
- (e) Ensure emergency response personnel have received appropriate training.

NOTE: The Aviation Disaster Family Assistance Act of 1996 requires each air carrier to have a plan in place to deal with the families of victims involved in an aircraft accident. However, there may be some instances where it may take some time before the air carrier can fully implement its plan In the interim, family members may look to the airport operator for information and assistance. This may be applicable even if the accident occurs off the airport in a nearby body of water. Therefore, while there is no legal obligation to do so, each airport operator should consider including provisions in the Water Rescue portion of the AEP to deal with these situations. At a minimum, consideration should be given to providing a secure, private location for these individuals until the air carrier plan becomes operational. Prior to developing any plans, it is recommended that the airport operator review each air carrier Disaster Family Assistance Plan with the appropriate carrier(s), as well as the designated response agencies for the purpose of discussing the potential roles and responsibilities of all patties concerned.

(2) Operations.

Through the Incident Command System:

- (a) Ensure that supporting emergency response agencies (fire, medical, law enforcement, etc.) have responded.
- $$\rm (b)$$ Coordinate response actions, with the ATCT.
- (c) Determine need to totally/ partially close the airport and issue appropriate **NOTAMs**.

N OTE: In the event of an aircraft accident in the water in close proximity to the airport, consideration should be given to closing the airport. This should be accomplished either by the airport operator and/or the appropriate FAA air traffic facilities through letters of agreement with the airport operator. Further, the airport, or portions thereof, should not be reopened until the airport operator has ensured that: (1) aircraft operating areas are secure; (2) aircraft movement areas that are to be reopened have been properly inspected; and (3) adequate aircraft rescue and fire fighting protection is available for aircraft operations.

The opening or closure of au airfield, or portion thereof, is the responsibility of the airport operator. However, in the fast developing dynamics that occur immediately after an accident or incident, the airport operator may not be in the best position to assess the situation and make a decision on continuing' operations or closing the airfield. To ensure the safety of airfield operations, it may be beneficial to establish procedures with the airport traffic control tower which gives the authority for closing the airfield under

defii circumstances and guidelines to controllers. This can be accomplished through a Letter of Agreement with the Air **Traffic** Control Tower. Such procedures must provide safeguards to ensure that airport operations are continued or resumed only after it is determined that there is no adverse effect on persons or property on the airfield and that appropriate level of ARFF **coverage** is available.

In addition, operations should resume: (1) only after it can be ascertained that the rescue and evacuation activities associated with the event will not be impacted negatively by resumption of airfield operation, and (2) the accident event does no pose a hazard to the resumption of airfield operations.

- Ensure that a representative of the affected aircraft owner/operator has been notified.
- (e) Provide technical assistant to the Incident Commander.
 - **(f)** Participate in EOC activities.
- (g) Monitor, and coordinate as required, other concurrent airport activities.
 - (3) Maintenance.
- Assist/provide critical services, including utility support (activation/cut-off), as needed.
- Provide sanitation services for (b) extended operations.
- (c) Assist in the provision or required resources.
- To the extent possible, arrange to have available the following equipment/ supplies/services:
 - **1** Portable lavatories.
 - **2** Drinking water.

etc.

3 Ropes, barricades, barrier tape,

- **4** Portable lighting.
- **5** Portable shelter(s). needed.
- **6** Fuel removal equipment.
- **7** Portable public address system.
- **8** Communications equipment (cellular telephones, two-way radios, etc.).
 - **9** Participate in activities. EOC
 - (4) Administration.
- Provide budgeting, payment and other (a) financial support, as appropriate.
 - (b) Provide procurement services.
 - **Participate EOC** activities. in
 - (5) Public Information and Community Relations.
- (a) Develop aud provide press releases relative the airport's responsibilities and activities, as needed.
- Interface with the media, as well as with air carrier and emergency response on-scene public relations personnel.
 - Participate in EOC activities.
- Aircraft Owner/Operator or Designated Representative.
- Provide pertinent information to Incident Commander, to include:
 - (a) Number of persons on board.
- Presence and location of any dangerous goods.
 - (2) Provide EOC representation.
- Make necessary notifications, to include the FM and NTSB.
- Arrange for appropriate passenger services, to include:
- Transportation of uninjured passengers/ crew members.

- (b) Adequate holding facilities for uninjured passengers/crew members.
- (c) Commissary items, telephone facilities, clothing, and additional medical services, as needed.
- (d) Facilities for friends and families.
- N 0 TE: The Aviation Disaster Family Assistance Act of 1996 (ADFAA) requires each air carrier to have a plan in place to deal with the families of victims involved in an aircraft accident
- (e) Passenger/crew accountability/tracking.
- (f) Hotel and/or other alternative travel arrangements for passengers.
- (g) critical Incident stress Disorder support.
- (5) Implement approved plan in compliance with the requirements established in the AFDAA.
- **(6)** Coordinate news releases with Airport Community/Public Relations personnel.
- (7) Provide for the timely removal of the wrecked or disabled aircraft as soon as **authorized** by the appropriate authority.
- 7-8-6 ADMINSTRATION AND LOGISTICS.- This -section of the document should cover those support requirements specific to aircraft **accident water** rescue situations.
- 7-8-7 PLAN DEVELOPMENT. This section of 'the plan should identify who is responsible for coordinating revisions to the Water Rescue Appendix, keeping its attachments **current**, and ensuring that **SOPs** and Checklists are developed and maintained. If the airport is not the primary response agency, then **identify** the person(s) responsible for monitoring the airport's support role policies and procedures.
- 7-8-8 AUTHORITIES AND REFER-ENCES. This section should identify those statutes and regulations that are applicable to aircraft water rescue situations, particularly those

which assign jurisdiction For example, the U.S. Coast Guard exercises jurisdiction over all navigable waters of the United States, including those subject to tidal influence. If the Coast Guard is the primary response agency, the appropriate regulation should be cited.

- 7-8-9 UNIQUE PLANNING CONSIDER-ATIONS. This section identifies many of the unique planning considerations that should be identified by the AEP Planning Team.
- a. General. The planning role for the airport operator in this instance will depend on whether or not the airport is assuming the **role** of primary response agency.

b. Direction and Control.

- (1) Due to' the complex and specialized nature of aircraft incidents/accidents, particularly in this situation where the airport may not be the primary response agency, it is important to give consideration to some type of Incident Command System (reference Chapter 6, Section 1, Direction and Control). This provides for joint field participation and coordination with all agencies having an interest in the operation, including the airport operator, the primary response agency, and the aircraft owner/operator.
- (2) As with the aircraft accident on land, it may be prudent to consider using the three different Phases (Response, Investigatory, and Recovery) when dealing with Direction and Control planning.
- (3) Remember that each aircraft incident/accident, even in the water, should be treated as a potential hazardous materials site and all emergency response activity should handle it as such, i.e. an ICS should be used and levels of training should be considered when determining response personnel.
- (4) Upon determination that the incident /accident site no longer poses a fire or hazardous materials threat to the health and safety of untrained personnel, the IC may consider terminating the Response Phase of the emergency and allowing the Investigatory Phase to begin. However, consideration should be given to having the primary response agency, i.e. Coast Guard/ARFF/Hazardous Materials/Fire remaining as lead agency until all injured and deceased have been removed from the scene and during any hazardous materials mitigation activities, such as aircraft defueling.
- (5) Once that has been completed, and upon consultation with other Unified Command representatives,

IC lead may be transferred to the investigating agency.

- (6) The appropriate investigating agency(s) (e.g. NTSB, FAA, etc.) may provide IC lead during the Investigatory Phase of the emergency.
- (7) Upon determination by the agency(s) that the airport, or other responsible agency, can begin site and aircraft recovery, and upon consultation with other Incident Command representatives, IC lead may be transferred to the appropriate organization.
- (8) If the location of the accident is on airport property, the airport may provide the lead during the Recovery Phase.
- (9) Whatever the form of Incident Command used, it is essential that it be determined and agreed upon by all participating agencies during the planning stages. The plan should be very specific in its designation of all responsible entities, their authority and function in the ICS. It should also clarify the functions of the on-scene Incident Command Post (ICP) and the Emergency Operations Center (EOC), particularly if both the airport and any off-airport organization(s) activate one.

c. Communications.

- (1) Communications at an aircraft incident/accident site can be very complex and go beyond those described in Chapter 6, Attachment 6-B, Communications. Multiple jurisdictions, multiple agencies (Coast Guard, Harbor Patrol, fire, police EMS, etc.), large and sometimes inhospitable water and weather conditions, etc. all contribute to the difficulty.
- (2) A communications network should consist of a sufficient number of radio transceivers, telephones (land line and mobile), and other communications equipment sufficient to establish redundant communications capability. This network should link all participating agencies, including the ICP and EOC(s).
- (3) Because of the high volume of communications traffic, it is essential that radio procedures/protocols be established and related training programs provided. Radio and telephone communications should be limited to those which are absolutely essential; they should be concise

and to the point.

- (4) Every effort should be made to include the air carrier(s) communications capability in the plan.
- (5) Consider use of amateur radio operators (RACES, ARES) as source of communications, including Packet radio and TV capabilities.
- (6) Many telephone companies have mobile telephone banks which can be brought to the scene of a disaster. In the case of an aircraft accident in the water, it may be appropriate to place additional telephones at the nearest dock or other shore point to support the transition of victims from the water to land vehicles.
- (7) A dedicated communications vehicle/ mobile command post with self-contained electrical power can be an asset to a reliable and functional communications system. Many local government emergency management agencies have one available.

d. Alert and Warning.

(1) Part 139.325, (e) requires that procedures be in place "...for notifying the facilities, agencies, and personnel who have responsibilities under the plan of the location of an aircraft accident, the number of persons involved in that accident, or any other information necessary to carry out their responsibilities, as soon as that information is available."

(2) The plan should specify:

- (a) Who is responsible for initiating the process for notifying both on and off-airport emergency response organizations of an aircraft accident. Normally, the Control Tower will be the agency first aware of an aircraft accident and will initiate a notification process, even for water situations. However, the possibility exists that another agency such as a 9-1-1 Center or local fire department dispatcher may have to initiate the notifications. AEP planners must consider all of the possibilities and ensure that the process is documented and understood by all participants as to who is the primary response.
- (b) How the notifications are made. A description of the system(s) used to include types of equipment, such as:

<u>1</u> Crash phone/direct line.

2 Pager.

- **3** Commercial telephone.
- **4** Cellular telephone.
- **5** Radio system.
- (c) A back-up system or process. Describe the notification processes in the event the primary notification system becomes inoperative.
- (d) The information to be transmitted during the initial notification. This should include:
 - **1** Type aircraft.
 - **2** Number of persons on board.
 - **3** Fuel quantity.
- **4** The presence of any known dangerous goods.
- **5** The location of the accident, if known Ifpossible, use a grid map to describe the location.
- **(e)** Refer to Chapter 6, Section 3, Alert and *Warni ng*, for more information.

e. Emergency Public Information.

Emergency Public Information (EPI) is a very important part of the overall response program. Because of the potential for major media coverage and a significant number of involved agencies, many with their own EPI program, it is essential that the airport plan include:

- (I) Provisions for coordinating news releases with other participating agencies, such as the air carrier and NTSB.
- (2) Provisions for controlled scene access for the media.
- (3) Specific criteria relating to the types and forms of information to be released by the airport. Generally speaking, the airport should speak only to those activities for which they are responsible.
- (4) Refer to Chapter 6, Section 4, Emergency *Public* Information, for more

information.

f. Protective Actions.

- (1) The AEP should contain provisions" regarding protective action recommendations (evacuation/sheltering) in the event the aircraft incident/accident occurs in such a mauner or location that it may threaten the health and safety of other personnel on the airport. Of **primary** concern is determining who is authorized to make those recommendations.
- (2) Refer to Chapter 6, Section 5, Protective Actions, for more information.

g. Law Enforcement.

- (1) Describe the major law enforcement tasks and responsibilities related to responding to an aircraft incident/accident. Planning elements to be discussed include:
- (a) Primary law enforcement agency responsible for, and methods used, to establish site security. This may be the responsibility of the Coast Guard or primary response agency. Although the accident is in the water, site security must still be provided.
 - (b) Availability of mutual aid support.
- (c) Provisions for establishing **Traffic** Control Points and Access Control Points to facilitate the movement of emergency response vehicles in and out of the airport/ accident site.
- (d) Method(s) used to identify authorized responders at the accident site (e.g. ID vests, armbands, escort, etc.).

h. Fire and Rescue.

Describe the major fire and rescue tasks and responsibilities related to responding to an aircraft incident/accident. Planning elements to be discussed include:

- (1) Pie-established access routes to staging areas for each runway or water area access point(s).
- (2) Methods used to advise mutual aid emergency response organizations of
 - (a) Accident location.
 - **(b)** Access routes.

- (c) Staging area(s)/rendezvous point(s).
- **(d)** Additional equipment/man-power.
- (3) Method used to identify onscene Command Post
 - i. Health and Medical.

(1) On-scene.

- (a) The purpose of on-scene medical services is to provide triage, initial medical care, and transportation to health care facilities. This may be accomplished at a point along the shore line, such as a dock.
- (b) It is essential that the AEP medical plans and procedures:
- $\underline{\mathbf{1}}$ Coordinate with and integrated into the local community plan(s).
- **2** Describe how the designated medical facilities and personnel are notified of the accident.
- 3 To the extent practical, provide for medical services including transportation and medical assistance for the maximum number of persons that can be carried on the largest air carrier aircraft that the airport reasonably can be expected to serve. The plan should list the type aircraft and capacity.
- **4** Provide an inventory of personnel and equipment, including contact information, of those rescue squads, ambulance services, military installations, and government agencies on the airport or in the communities it serves, that agree to provide medical assistance or transportation.
- 5 Designate a Medical Coordinator who should assume command of emergency medical operations at the accident site whose responsibilities, in coordination with the Medical Transportation Officer, may include:
- medical and ambulance services have been alerted and verify their subsequent arrival at the

designated Staging Area.

- **b)** Organize the necessary action for triage and treatment of the casualties and their eventual evacuation to a health care facility.
- **c)** Arrange for the re-stocking of medical supplies, if necessary.
- **d)** Provide medical analysis of he walking wounded or traumatized.
- **<u>6</u>** Designating a Medical Transportation Officer whose responsibilities may include:
- **a)** Ensuring that hospitals and medical personnel have been notified of the emergency.
- **b)** Directing transportation of casualties to health care facilities suited for the particular injury.
- c) Accounting for casualties by recording casualty's name, destination health care facility, and transporting agency.
- **d)** Advising hospitals when casualties are **enroute**.
 - (2) Hospitals.

The plan should include:

- (a) The name, location, emergency capacity, and contact information of each hospital and other medical facility on the airport and in the communities it serves agreeing to provide medical assistance or transportation.
- (b) The distance of each hospital from the airport and the ability to receive helicopters.
- (c) Where practical, provisions for the hospital(s) to communicate through a central control point to facilitate the distribution of the critically injured.

i. Resource Management.

The plan should include provisions for identifying agencies and contractors that could be involved in aircraft removal and/or **clean-up** of any hazardous materials associated with the emergency.

SECTION 9. CROWD CONTROL

- **7-9-1 INTRODUCTION.** Crowds of people may assemble at the airport for many reasons, including civil unrest, peaceful assembly or the result of an accident or natural disaster. In either event, a crowd could inadvertently or deliberately disrupt airport operations.
- **7-9-2 PURPOSE.** The information contained in this hazard-specific appendix is intended to supplement the Basic Plan and Functional Annexes of the AEP. It defines responsibilities and describes actions to be taken in the event a crowd control incident **or** problem occurs. Further, this document, in conjunction with the Basic Plan and Functional Annexes, forms the basis for elements to be included 'in functional Standard Operating Procedures (SOPs) and Checklists.

7-9-3 SITUATION AND ASSUMPTIONS.

a. Nature of assembly.

The purpose and mental attitude of the assembly may vary considerably. The arrival or departure of popular public **figures may** attract crowds who will, in most cases, be good-natured and easily controlled. The arrival or departure of more controversial persons may draw groups that are hostile and prone to disorderly conduct.

- a. **Peaceful assembly at the airport.**Peaceful assemblies often ate impromptu, particularly if a VIP is suddenly recognized. The following 'are a partially listing of peaceful assemblies that may happen at an airport:
- (1) Arrival or departure of VIPs, athletes, or other public figures.
- **(2)** A welcoming reception given by a new carrier to the terminal
- (3) The introduction of a new aircraft.
- **(4)** Aircraft incidents and accidents.
- c. Disruption for Hostile Reasons. There are circumstances that bring people to the airport to protest or vent their anger. Such circumstances may stimulate deliberate attempts to interfere

with operations or to commit sabotage - for instance:

- (1) Arrival of a controversial person or group.
- (2) A period of civil unrest nationally, regionally, or locally.
- (3) A period of serious international tension.
 - (4) Union strikes.
- **7-9-4 OPERATIONS.** This section should describe actions to be taken if a crowd control incident should occur at the airport. Topics to be covered include:
 - (a) A list of mutual aid agreements relative to crowd control situations.
 - **(b)** Criteria for activation of the EOC.
- **(c)** A description of the crowd control incident response and recovery actions and procedures of airport personnel.

7-9-5 ORGANIZATION AND ASSIGN-MENT OF RESPONSIBILITIES.

Some examples might include:

- a. Airport Traffic Control Tower (ATCT). In accordance with the letter of agreement:
- (1) Provide relevant information and directions to aircraft operators.
- **(2)** Provide necessary air and ground traffic control support for emergency response activities.

b. Airport Operator.

- (1) Friendly Crowds. In some situations, airport operators know in advance that a situation is likely to bring friendly crowds to the airport Through proper planning and experience, appropriate steps may be taken to minimize the effort required to control a friendly crowd.
- (2) **Hostile Assemblies.** For hostile situations, it is difficult to determine in advance the degree of distmbance that may result at the airport. Therefore,

before any specific steps are taken to increase security, intelligence information, which has been received from all reliable sources, must be evaluated. With that input, operators can make decisions concerning the kind and extent of security measures to take.

- (a) Intelligence. Typically there is advance warning or lead time with the assembly of large crowds. In times of civil disorder or international tension, airport operators should be especially alert to dissidents. While trained saboteurs will operate with great secrecy, untrained dissidents usually talk, threaten, or boast, and their plans either become known in detail or can be predicted.
- **(b) Briefings.** If appropriate, airport operators should brief air carrier representatives and other tenants on the actions airport security will take to deal with the anticipated demonstration. The briefing should specify the actions&at the airport operator, other agencies, and tenants should take to insure both the safety of the public and continued operation of the airport.
- (c) Vulnerable locations. The following locations are potentially vulnerable:
- **(1)** Apron entrances and exits. All apron entrances and exits should be closed. One entrance or exit may be kept open depending upon the degree of security required. A security guard with radio communications will be stationed at access and other critical points for surveillance.
- (2) Fuel farms. If an assembly is anticipated to be hostile, fuel farms should be secured until the period of expected violence and the potential for a fire hazard has passed.
- ing lots and terminals., It is advisable to control the automobile parking lots and the pathways between the lots and the terminal(s).
- (d) Lighting. Lighting should be provided around buildings that house critical facilities. At entrance gates, the lighting should be bright enough to permit guards to identify persons and inspect identification cards. Controls and power sources should be installed where they

are inaccessible to unauthorized persons. Floodlights **mounted** on airport emergency or service vehicles may be used for patrolling fences in times of disorder. Authonzed personnel should regularly check that field, ramp, **taxiway**, terminal, and roadway lighting is functioning properly. Portable floodlights may be used to provide positive surveillance capability at those areas used on an infrequent or temporary basis.

(e) Building and apron security.

- apron emergency **entrances** should be secured.
- **(2)** Gates. Gates should be locked except during actual enplaning and deplaning operations. In critical areas, guards should be posted. Only properly identified and authorized persons such as air carrier personnel, owners or pilots of general aviation aircraft on the field, airport staff, security, emergency response personnel, and passengers should be permitted to pass through check points.
- specifications have been **developed by various** manufacturers. Information on any installed alarm system should be **closely** controlled.

c. Aircraft Rescue and Fire Fighting (ARFF).

Watch law enforcement problems closely for possible development into fire problems; the time interval between law enforcement and fire problems may be a matter of an hour or days.

d. Law enforcement.

- (1) Assume primary responsibility for crowd control actions.
- **(2)** Give due consideration to the rights of individuals and the protection of private property.
- (3) Coordinate with mutual aid organizations, as necessary.
- (4) Augment security forces if intelligence reports and type of demonstration warrant.

e. Emergency Medical Services.

Monitor the situation and provide services as required. For anticipated large crowds, an airport should set up extra first aid, medical booths, and have ambulances standing by.

f. Airport Tenants.

Tenant security should be increased commensurate with the anticipated problem. All office doors should be closed and, if practical, locked when tenant employees are working inside. During off-duty hours, all doors should be locked.

7-9-6 ADMINISTRATION AND **LOGISTICS.** This section of the document should **cover those** general support requirements specific to crowd control incidents.

7-9-7 PLAN DEVELOPMENT. This section should identify who is responsible for coordinating revisions of the Crowd Control Appendix, keeping its attachments current, and ensuring that **SOPs** and Checklists are developed and maintained.

7-9-8 AUTHORITIES AND **REFERENCES.** This section should identify any bomb threat-specific statutes, regulations, **MOUs**, etc. that are applicable.

- **7-9-9 UNIQUE PLANNING CONSID- ERATIONS.** This section contains a listing of the functional annexes that would typically require the **preparation** a hazard-specific appendix for crowd control incidents. It identifies many of the unique and/or planning considerations that should be identified by the AEP Planning Team.
- a. General. For the most part, the primary planning role of the airport operator will be to coordinate the planning, response, and recovery efforts with local law enforcement agencies.
- **b. Direction and Control.** For this hazard, law enforcement should assume the lead.
- (1) It is recommended that an ICS be used for on-scene management of response activities. A description of ICS is found in Chapter 6, Attachment 6-A, *Direction and Control*.
- **(2)** Response Actions. Provisions should be made, as appropriate, to describe the on-scene management structure and address the following planning considerations in one or more appendices to a Direction and Control Annex:

- (a) Procedures used to identify the validity of the threat.
- **(b)** ICS to be used at crowd control incidents on the airport.

c. Emergency Public Information.

The following planning considerations should be addressed, if appropriate, in one or more appendices to an EPI Annex:

- (1) Methods used, prior to emergencies, for educating airport personnel about potential crowd control incidents.
- (2) Role and organizational position of the airport public relations officer during a crowd control incident.

d. Fire and Rescue.

Fire Department apparatus should be deployed to selected locations throughout the airport and will be readily available to respond as required.

e. Resource Management.

- (1) At the onset of any given airport emergency, important support personnel and equipment, including key airport employees, may be located off the airport. Therefore, the AEP Planning Team should consider the following:
- (a) Airport access roads may be closed and/or traffic/access control established to prevent entry by unauthorized personnel. Procedures should be developed that will provide for the timely access to the airport by response personnel, including designated airport employees who may be off the airport at the time of the incident.
- **(b)** Response to many emergencies, particularly those involving aircraft, often attract emergency responders from a wide geographic area. Many of these responders, while well-intentioned do not have an official role in the planned response effort and can create a significant resource management problem.
- (2) The AEP Planning Team should provide for resource management during plan development. Planning elements to be considered include:
- (a) The development of an official emergency responder identification pass/badge/card to be

Item	Page Ref.	S	U
2. Rescue and firefighting			
a) Name (c)(3)			
b) Location (c)(3)			
c) Telephone #(c)(3)			
Principal tenants (including air carriers and Control Tower)			
a) Name (c)(3)			
b) Telephone #(c)(3)			
4. Equipment inventory			
a) Surface vehicles/aircraft to transport injured/deceased (c)(4)			
b) Hangars/buildings to accommodate uninjured injured, and deceased (c)(5) 5. Agreements (c)(2,3,6)			
6. Communications network (a)(1)			
7. Plan coordination (g)(1)			
8. Plan development (g)(2)			
9. Training (airport personnel only) (g)(3)			
10. Annual review (g)(4)			
B. Procedures			
V. Hazardous Materials			
A. Plans			
1. Identification of response agencies /personnel			
a) Law enforcement			
b) Name (c)(6)			
c) Location (c)(6)			
2. Rescue and firefighting			
a) Name (c)(3)			
b) Location (c)(3)			
c) Telephone #(c)(3)			
Principal tenants (including air carriers and Control Tower)			
a) Name (c)(3)			
b) Telephone # (c)(3)			
4. Equipment inventory			
a) Surface vehicles/aircraft to transport injured/deceased (c)(4)			
b) Hangars/buildings to accommodate uninjured, injured, and deceased (c)(5)			
5. Agreements (c)(2,3,6)			
6. Communications network (a)(1)			
7. Plan coordination (g)(1)			

Item	Page	Ref.	S	u
8. Plan development (g)(2)				
9. Training (airport personnel only) (g)(3)				
10. Annual review (g)(4)				
B. Procedures				
			· · · · · · · · · · · · · · · · · · ·	İ
I. Sabotage, hijack incidents, and other unlawful interferences with operations				
A. Plans				
1. Identification of response agencies / personnel				
a) Law enforcement			1	
b) Name (c)(6)			I	
c) Location (c)(6)				
2. Rescue and firefighting				
a) Name (c)(3)				
b) Location (c)(3)				
c) Telephone #(c)(3)				
Principal tenants (including air carriers and Control Tower)				
a) Name (c)(3)				
b) Telephone #(c)(3)				
4. Equipment inventory				
a) Surface vehicles/aircraft to transport injured/deceased (c)(4) b) Hangars/buildings to accommodate uninjured,				
injured, and deceased (c)(5)				
5. Agreements (c)(2,3,6)				
6. Communications network (a)(1)				
7. Plan coordination (g)(1)				
8. Plan development (g)(2)				
9. Training (airport personnel only) (g)(3)				
10. Annual review (g)(4)		4		
B. Procedures				
II. Failure of power for movement area lighting				
A. Plans	<u> </u>			
B. Procedures				

Item	Page Ref.	S	U
/III. Water Rescue Situations			
A. Plans			
B. Procedures			
x. Crowd Control			
A. Plans			
B. Procedures			
Domonto.			
<u>Remarks:</u>			
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APPENDIX 4. DEFINITIONS

There are many different terms which may be specific to emergencies, particularly airport emergencies. The following is intended to provide information relative to the terminology used in the Advisory Circular.

<u>Aircraft Accident</u> • Any occurrence associated with the operation of an <u>aircraft</u> that takes place between the time a person boards the aircraft with the intention of flight and the time such person has disembarked, in which a person suffers death or serious injury as a result of the occurrence or in which the aircraft receives substantial damage.

Aircraft Incident - Any occurrence associated with the operation of an aircraft that is not considered an "aircraft accident"

Aircraft Opera for - A person, organization, or enterprise engaged in, or offering to engage in, aircraft operations.

<u>Airside</u> - The movement area of an airport, adjacent terrain and buildings or portions thereof, access to which is controlled.

Alert I (Local Standby) - An aircraft that is known or suspected to have an operational defect that should not normally cause serious difficulty in achieving a safe landing. This is notification only. No response is required. All units involved will be manned and will standby in quarters.

Alert II (Full Emergency) - An aircraft that is know or is suspected to have an operational defect that affects normal flight operations to the extent that there is danger of an accident. All units respond to pie-designated positions.

Alert III (Aircraft Accident) - An aircraft incident/accident has occurred on or in the vicinity of the airport. All designated emergency response units proceed to the scene in accordance with established plans and procedures.

American Red Cross (ARC)- A humanitarian organization, led by volunteers, that provides relief to victims of disasters and helps people prevent, prepare for, and respond to emergencies. It does this through services that are consistent with its Congressional Charter and the Principles of the International Red Cross Movement.

<u>Comm unity</u> - A political entity which has the authority to adopt and enforce laws and **ordinances** for the area under its jurisdiction. In most cases, the community is an incorporated town, city, township, village, or unincorporated area of a county. However, each state defines its own political subdivisions and forms of government.

<u>Command Post (CP)</u> - A point where responding agencies are briefed on the situation as they arrive to report and assume control of the individual aspects of the operation.

<u>Contamination</u> - The undesirable deposition of a chemical, biological, or radiological material on the surface of structures, areas, objects, or people.

<u>Dam aee Assessment</u> - The process used to appraise or determine the number of injuries and deaths, damage to public and private property, and the status of key facilities and services such as runways, taxiways, navigational aids, control tower, water and sanitation systems, communications networks, utilities, and other **infrastructure** networks resulting **from** a man-made or natural disaster.

<u>Decontamination</u> - The reduction or removal of a chemical, biological, or radiological material from the surface of a structure, area, object, or person.

<u>Disaster</u> • An occurrence of a natural catastrophe, technological accident, or human-caused event that has resulted in **severe** property damage, deaths, and/or multiple injuries. As used in this Advisory Circular, a "large-scale disaster" is one that exceeds the capability of the airport and local communities and requires state, and potentially, federal involvement.

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Appendix 4

Emergency - Any occasion or instance-such as a hurricane, tornado, storm, flood, tidal wave, tsunami, earthquake, volcanic eruption, landslide, mudslide, snowstorm, fire, nuclear accident, or any other natural or man-made catastrophe-that warrants action to save lives and to protect property, public health, and safety.

Emergency Alert System (**EAS**) - A digital technology (voice/text) communications system consisting of broadcast stations and interconnecting facilities authorized by the Federal Communication Commission. The system provides the President and other national, state, and local officials the means to broadcast emergency information to the public before, during, and after disasters.

<u>Emereency Operations Center</u> • A protected site from which emergency officials coordinate, monitor, and direct emergency response activities during an emergency.

<u>Emereency Plan</u> • A document that: describes how people and property will be protected in disaster and disaster threat situations; details who is responsible for carrying out specific actions; identifies the personnel, equipment, facilities, supplies, and other resources available for use in the disaster, and outlines how all actions will be coordinated.

<u>Flood</u> - A general and temporary condition of partial or complete inundation of normally dry laud areas from **overflow** of inland or tidal water, unusual or rapid accumulation or runoff of surface waters, or mudslides, mudflows caused by accumulation of water.

<u>Hazard Mitigation</u> • Any action taken to reduce or eliminate the long-term risk to human life and property from hazards. The term is sometimes used in a stricter sense to mean costeffective measures to reduce the potential for damage to a facility or facilities **from** a disaster event.

<u>Hazardous Material</u> • Any substance or material that when involved in au accident and released in **sufficient** quantities, poses a risk to people's health, safety, and/or property. These substances and materials include explosives, radioactive materials, flammable liquids or **solids**, combustible liquids or solids, poisons, oxidizers, toxins, and corrosive materials.

<u>Hurricane</u> • A tropical cyclone, formed in the atmosphere over warm ocean areas, in which wind speeds reach 74 miles per hour or more and blow in a large spiral around a relatively calm center or "eye". Circulation is counterclockwise in the Northern Hemisphere and clockwise in the Southern Hemisphere.

<u>Incident Command</u> **System** (ICS) - A standardized organizational structure used to command, control, and coordinate the use of resources and personnel that have responded to the scene of an emergency. The concepts and principles for ICS include common terminology, modular organization, integrated commum 'cation, **unified** command structure, consolidated action plan manageable span of control, designated incident facilities, and comprehensive resource management.

<u>Joint Information Center (JIC)-</u> A central point of contact for all news media near the scene of a large-scale disaster. News medial representatives are kept informed of activities and events by public information officials who represent all participating agencies that **are** collected at the JIC.

<u>Mutual Aid</u> - Reciprocal assistance by emergency services under a predetermined plan <u>Recovery</u> - The long-term activities beyond the initial crisis period and emergency response phase of disaster operations that focus on returning all systems at the airport to a normal status or to reconstitute these systems to a new condition that is less vulnerable.

<u>Resource Management</u> - Those actions taken by an organization to: identify sources and obtain resources needed to support disaster response activities; coordinate the supply, allocation, distribution, and delivery of resources so that they arrive where and when most needed; and maintain accountability for the resources used.

<u>Significant Body of Wafer</u> - A body of water or marsh land is significant if the area exceeds one-quarter square mile and cannot be traversed by conventional land rescue vehicles.

<u>Staging Area</u> • A pm-arrauged, strategically placed **area** where support response personnel, vehicles and other equipment can be held in readiness for use during an emergency.

<u>Standard Operating Procedure (SOP)</u> - A set of <u>instructions</u> constituting a directive, covering those features of <u>operations</u> which lend themselves to a definite, step-by-step process of accomplishment. SOPs supplement AEPs by detailing and specifying how tasks assigned in the AEP are to be carried out.

<u>Terrorism</u> - The use of or threatened use of criminal violence against civilians or civilian infrastructure to achieve political ends through fear and intimidation, rather than direct confrontation. Emergency management is typically concerned with the consequences of terrorist **acts directed** against large numbers of people (as opposed to political assassination or hijacking, which may also be considered "terrorism").

Tornado - A local atmospheric storm, generally of short duration, formed by winds rotating at very high speeds, **usually** in a counter-clockwise direction. The vortex, up to several **hundred** yards wide, is visible to the observer as a whirlpool-like column of winds rotating about a hollow cavity or funnel. Winds may reach 300 miles per hour or higher.

Triage - Sorting and classification of casualties to determine the order of priority for treatment and transportation.

<u>Tsunami</u> - Ocean waves produced by an undersea earthquake. Such ocean waves can reach a height of **80** feet and can devastate coastal cities and low-lying coastal areas.

<u>Warning</u> - The alerting of emergency response personnel and the public to the threat of extraordinary danger and the related effects that specific hazards may cause. A warning issued by the National Weather Service (e.g. severe storm warning, tornado warning, tropical storm warning) for a defined area indicates that the particular type of severe weather is imminent in that area.

<u>Watch</u> - Indication by the National Weather Service that, in a defined area, conditions are favorable for the specified type of severe weather (e.g. flash flood watch severe thunderstorm watch, tornado watch, tropical storm watch).

APPENDIX 5. ACRONYMS

. CD	
ACP	
	Americans with Disabilities Act
	Aviation Disaster Family Assistance Act of 1996
AOA	
ALS	
	Army/Air National Guard
AC	
	Airport Emergency Plan
ALPA	Air Line Pilots Association
ARC	American Red Cross
ARFF	Aircraft Rescue and Fire Fighting
ARRL	American Radio Relay League
	Air Traffic Control Tower
BLS	
CAP	
	Chemical Transportation Emergency Center
	Code of Federal Regulations
	Comprehensive Environmental Response, Compensation and Liability Act
DOD	
DOE	
DOT	
EAS	1
EMS	
EOC	
EOD	1
EOP	
EPA	\mathcal{E}
EPCRA	
	Emergency Public Information
	Federal Aviation Regulation
	Federal Aviation Administration
	Federal Bureau of Investigation
FBO	
	Federal Emergency Management Agency
	Geographic Information System
HAZMAT	
	International Air Transport Association
IC	
	·
	International Civil Aviation Organization
	International Fire Safety Training Association
JIC	Joint Information Center
JNACC	Joint Nuclear Accident Coordinating Center
LEPC	Local Emergency Planning Committee
MOU	Memorandum of Understanding
MSDS	Material Safety Data Sheet
	National Disaster Medical System
	National Fire Protection Association
	National Oceanic and Atmospheric Administration
	National Response Team
	National Transportation Safety Board
	National Weather Service
	Occupational Safety and Health Administration
ODIII	Secupational Surety and Hearth Manifestation

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PIO	Public Information Officer
RACES	Radio Amateur Civil Emergency Service
REACT	Radio Emergency Associated Communications Team
SARA	Super-fund Amendments and Reauthorization Act
SERC	State Emergency Response Commission
TCP	Traffic Control Point
USCG	United States Coast Guard
USDA	United States Department of Agriculture

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APPENDIX 7. SAMPLE MUTUAL AID AGREEMENTS

Sample 1

ANYTOWN AIRPORT TRAFFIC CONTROL TOWER AND ANYTOWN MUNICIPAL AIRPORT

LETTER OF AGREEMENT

	(Date)	
	SUBJECT: AIRPORT EMERGENCY SERVICE	
P URPOSE.	The purpose of this agreement is to prescribe procedures to be utilized, to the extent practicable, in	the

EFFECTIVE:

event of an emergency, actual or potential, on the **Anytown** Airport during the hours that the **Anytown** Airport is operational.

- 1. CANCELLATION. **Anytown** Airport Traffic Control Tower and **Anytown** Municipal Airport Letter of Agreement dated ______
- 2. SC 0 P E. In the event of an aircraft accident, bomb threat, or other emergency, actual or potential, on or in the **vicinity** of the **Anytown** Municipal Airport, **Anytown** Airport Traffic Control Tower personnel shall alert emergency equipment when any of the following request such action:
 - a. A specialist on duty in the operating quarters.
 - b. The pilot of the aircraft concerned.
 - c. The operator of the aircraft or his/ her representative.
 - d. A representative of airport management.

The airport shall automatically be closed when:

- a. Off airport tire equipment responds to any emergency which requires travel on the designated Movement Area.
- b. Any aircraft accident or incident, or other emergency, which occurs on, or in the vicinity of, the airport to which airport Aircraft Rescue aud Firefighting equipment responds.

NOTE: The airport **operator** should insert any additional closure criteria specific to the **particular** airport in this section.

The airport will remain closed until tower personnel have received authorization **from** the airport manager or designated representative to open partial or complete areas of the airport. In cases of minor incidents, telephone permission will be allowed.

The type and amount of equipment and number of personnel responding to the emergency will be determined by the Incident Commander. After receiving the notification of the emergency, the personnel operating the equipment will be responsible for handling the emergency.

3. RESPONSIBILITIES.

- a. Airport Traffic Control Tower (ATCT):
 It shall be the responsibility of **Anytown** Airport Traffic Control Tower personnel to:
 - (1) Alert emergency response personnel in accordance with established procedures for:
 - (a) Each of the Alerts listed below.
- **(b)** Any other emergency, actual or potential, which comes to the attention of Control Tower personnel.
- (2) Test the Crash Phone system daily at 0900. Problems will be reported immediately to the Airport **Manager** or designated representative.
- (3) Assist the airport operator in the development of necessary emergency plans and procedures, as appropriate.

b. Airport Operator:

It shall be the responsibility of **Anytown** Airport personnel to:

- (1) Ensure that at least one on-scene individual/vehicle maintains two-way radio communications with the ATCT.
- (2) Provide training to emergency response personnel regarding the operation of vehicles on the airport Movement **Area**, to include the use of two-way radios and standard ATCT light signals.
- (3) In coordination with the **ATCT**, as appropriate, develop and maintain necessary emergency plans and **procedures**.

4. PROCEDURES.

- a. Aircraft emergencies:
 - (1) Classifications:
- (a) ALERT I: Potential minor emergency; equipment not requested at standby positions. Airport not closed unless off airport equipment responds to the designated Movement Area. ATCT shall:
- 1) Notify designated emergency response personnel in accordance with established procedures (crash phone, hot line, radio, etc.).
 - 2) Notify airport manager or designated represented.
 - 3) Notify aircraft operator or designated representative, if able.
- **(b)** ALERT II: Potential major emergency; aircraft has fire on board, faulty landing gear, no hydraulic pressure, etc. Airport is closed after aircraft lands. ATCT shall:
- 1) Notify emergency response personnel in accordance with established procedures (crash phone, hot line, etc.)
 - 2) Notify airport manager or designated representative.

- 3) **Notify** aircraft operator or designated representative, if able.
- 4) **Notify fixed** base operator, if appropriate.
- 5) Provide appropriate ground control clearances to **responding** emergency vehicles, as needed.
- 6) To the extent practicable, keep other aircraft and ground vehicle operators clear of the area involved in the emergency.
- (c) ALERT III: Aircraft involved in an actual accident on or near the airport. Airport is closed if on airport or emergency equipment must traverse the airport to reach scene. ATCT shah:
- Notify emergency response personnel in accordance with established procedures (crash phone, hot line, etc.)
 - **2)** Close the airport.
 - 3) Notify airport manager or assistant manager.
 - 4) Notify aircraft operator or his or her representative, if able.
 - 5) Notify fixed base operator, if appropriate.
- **6)** Provide appropriate ground control clearances to responding emergency vehicles, as needed.
- 7) Control the movement of aircraft and vehicles on the Movement Area to permit emergency response vehicle access **to/from** the accident area. The movement of emergency vehicles shall take priority over that of taxing aircraft until the emergency condition has ended..

(2) Information

The **Anytown** ATC Tower shah provide the following information to emergency response personnel whenever possible:

- (a) Aircraft identification.
- **(b)** Aircrafttype.
- (c) Nature of emergency.
 - **(d)** Estimated time of arrival.
 - (e) Landing runway.
 - **(f)** Number of persons on board.
 - **(g)** Amount of fuel on board.
 - **(h)** Type and location of dangerous cargo on board.
- (3) Bomb threat, hijack, dangerous cargo, and other emergencies.

Any time ATCT personnel become aware of an actual or potential situation which may present a threat to the health

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aud safety of the public, the Anytown Air Traffic Control Tower shah:

- (a) Notify designated emergency response personnel in accordance with established procedures (crash phone, hot line, radio, etc.).
 - **(b)** Notify airport manager or designated representative.
 - (c) Notify aircraft operator or designated representative, if able.
 - **(d)** Close the airport to all traffic except the target aircraft.
 - **(e)** Direct the target aircraft to the designated search area.
 - (f) Standby to assist in communications, if requested..
- (g) Control the movement of aircraft and vehicles on the Movement Area to permit access to/from the designated search **area**. The movement of emergency vehicles shall take priority over that of taxiing aircraft until the emergency condition has ended.

Original signed by:

Chief, Anytown Tower

Airport Manager, Anytown Airport

Chief, Off-Airport Fire Department(s)

3

Sample 2

MUTUAL AID AGREEMENT

STATE OF AND COUNTY OF
this agreement entered into by and between the County of Airport Authority and
this agreement entered into by and between the County ofAirport Authority and on this theday of, 19, for a term of (months) (years) (until terminated in writing by either party)
WHEREAS, the County of Airport Authority is a political subdivision of the State of established and empowered to operate, maintain, and protect the airports and air facilities of the
established and empowered to operate, maintain, and protect the airports and air facilities of the Authority and to promote the safety of said airports and the public therein ; and
WHEREAS, the is a (municipality) (state agency) (political subdivision) of the State of established and empowered to (recite powers as appropriate); and
WHERE AS, the parties hereto find that the possibility of major disasters threatening life and property within their respective jurisdictions presents a common danger most effectively to be met by collective planning and effort; and
WHERE AS, the parties desire in advance of a major disaster or emergency condition to coordinate life-saving, fire fighting, law enforcement, and other related activities; and
WHERE AS, the parties hereto have, through their respective governing boards or commissions, approved the terms and covenants set forth hereinafter by appropriate resolutions;
NOW THEREFORE thepartieshemtodoagreeandcovenantonetoanotherasfollows:
ARTICLE ONE-DEFINITIONS
The following terms and phrases shall be understood to mean:
a. "Command Post" A point where responding agencies are briefed on the situation as they arrive to report and assume control of the individual aspects of the operation.

- b. "Disaster" -- An occurrence of a natural catastrophe, technological accident, or human-caused event that has resulted in severe property damage, deaths, and/or multiple injuries.
- c. "Emergency" Any occasion or instance—such as a hurricane, tornado, storm, flood, tidal wave, tsunami, earthquake, volcanic eruption, landslide, mud slide, snowstorm, fire, nuclear accident, or any other natural or manmade catastrophe—that warrants action to save lives and to protect property, public health, and safety.
- d. "Emergency Plan" A document that: describes how people and property will be protected in disaster and disaster threat situations; details who is responsible for carrying out specific actions; identifies the personnel, equipment, facilities, supplies, and other resources available for use in the disaster, and outlines how all actions will be coordinated.
- e. "Emergency Operations Center' -- A protected site from which emergency officials coordinate, monitor, and direct emergency response activities during an emergency.
- f. "Incident Commander" that individual tasked with the direction and control of emergency response personnel and equipment, as well as provide overall management at a specific incident site, including public safety and public information The goal of the IC is to obtain the maximum productivity from all on-scene resources. The

individual in this position may change depending on the scope, intensity, and duration of the incident.

- g. "Incident Command System" •• A standardized organizational structure used to command, control, and coordinate the use of resources and personnel that have responded to the scene of an emergency. The concepts and principles for ICS include common terminology, modular organization, integrated communication, unified command structure, consolidated action plan manageable span of control, designated incident facilities, and comprehensive resource management,
- h. "Letter of Agreement" a written undertaking by and between the parties hereto for the purpose of supplementing the terms hereof.
 - i. "Party" = the parties hereto through their respective governing boards or commissions.
- **j.** "Requesting Party" that party hereto in the jurisdiction of which a major disaster has occurred, including, but not limited to, fire, flood, earthquake, riot, civil commotion, or other emergencies threatening to life and/or property, of such magnitude that the resources of the said party are, in the determination of the Incident Commander of said party, not sufficient to control or abate the disaster or emergency conditions.
 - k. "Responding Party" the party hereto receiving a request for assistance from the requesting party.

ARTICLE TW 0 - OPERATIONAL PROVISIONS

- a. The responsibility for determining the magnitude of a major disaster or emergency condition and for taking initial measures to meet such disaster or emergency condition **shall** rest with the party in the jurisdiction of which the disaster or emergency arises in accordance with the emergency plan of said party.
- b. In the event a disaster or emergency condition is found by a party to exceed the resources available within its jurisdiction, the said party shall immediately identity an Incident Commander and establish an Incident Command Post.
- c. The Incident Commander shall determine if any requirement exists for assistance **from** other parties and shall, as the requesting party, communicate such requirement to responding parties.
- d. The responding party shall, in accordance with its emergency plan and/or any Letters of Agreement with **the** requesting party, determine the availability of resources that **can be** dispatched to the requesting party to serve with the requesting party in controlling or mitigating the disaster or emergency condition.
- e. All resources of the responding party, including but not limited to personnel, law enforcement and **fire** fighting equipment, medical supplies, life-saving equipment, and other emergency supplies, that shall be dispatched to the requesting **party**, shall be under the direction and control of the Incident Commander of the requesting party, and shall act as the sole agents of the requesting party for the duration of the disaster or emergency condition or until such time as the said resources are released by the requesting party.
- NOTE: In some states, the control of responding mutual aid forces remain under the operational control of the jurisdiction, department, or agency furnishing the force. This should be reviewed before developing a Mutual Aid Agreement.
- f. The rendering of assistance by a responding party under the terms of this Agreement shall be **voluntary** and not mandatory as conditions in the jurisdiction of the responding party shall warrant. The, inability of a **responding** party to render aid shall in no case give rise to liability of the responding party to the requesting party or any third person for damages as a result of such inability and the parties hereto expressly agree that the responding party shall be indemnified and held harmless by the requesting party for any and all damages resulting from **rendering** of or **failure** to render assistance under the provisions hereof. If a responding party is not able to provide the requested assistance, or any portion of it, to the requesting **party**, the responding party will advise the requesting party of such inabilities.

g. The rendering of **assistance** by a responding party under the terms of this Agreement shah be without compensation and at no cost to the requesting party.

ARTICLETHREE-AMENDMENT

- a. This Agreement may be supplemented by the Letters of Agreement between the parties for the purpose of exchanging information, identifying responsible officials, coordinating specific operations, or in any other manner providing detailed guidance for discharge of the mutual responsibilities undertaken by the term hereof.
- b. Any change of the responsibilities, procedures **and/or** liabilities set forth hereinabove **shall** be written modification of this Agreement and not otherwise.

insulfaction of this represent the not state use.
IN WITNESS WHEREOF the parties hereto have set their hands and seals to this Agreement as of the date first se forth at, state of
ATTEST:
County of AIRPORTAUTHORITY BY: Its
ATTEST:
BY:

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distributed to airport response personnel.

- (b) The designation of a remote staging area for those emergency response personnel who do not have a designated role in the AEP.
- (c) Coordination of these **pro**visions with the local Emergency Management Agency (EMA).
- (d) Dissemination of the information contained in these planning elements through community emergency responder training programs and emergency management newsletters.

7-9-10 SOPS AND CHECKLISTS.

The following provides some examples of the types of information that may be included in functional **SOPs** and Checklists:

a. During t h e Emergency (Response).

The degree of response will depend upon the nature of the assembly, i.e. a friendly vs. a hostile crowd.

b. After the Emergency (Recovery).

If needed, checklists may be developed for return to normal operations (e.g. cancel any **NOTAMs** that may have been issued).

APPENDIX 1. AIRPORT / COMMUNITY HAZARDS ANALYSIS PROGRAM

Disasters are becoming more frequent and more complex. Technology is constantly providing new types of problems, particularly in the area of hazardous materials including radiological pharmaceuticals, infectious biohazards and explosives. Many hazardous materials are now being shipped through airports, and in order to deal with this type of environment, airports must have in place a strong, dynamic emergency preparedness program.

The first step in developing a program is to determine planning priorities by systematically identifying and prioritizing the natural and technological hazards that may threaten the airport and its surrounding community. This is accomplished through the completion of a hazards analysis. It is important to remember that every airport/community is unique. No single hazards analysis applies to all.

Airports certificated under FAR Part 139 must ensure that their AEP required by section 139.325 contain procedures and instructions for responses to the following potential hazards:

- 1. Aircraft Incidents and Accidents
- 2. Bomb Incidents
- 3. Structural Fires
- 4. Natural Disasters
- 5. Hazardous Materials
- 6. Sabotage, Hijack and other Unlawful Interference with Operations
- 7. Failure of Power for Movement Area Lighting
- 8. Water Rescue Situations
- 9. Crowd Control

Because airports play a prominent role in any community, and because community resources are essential in the response to any major disaster, the airport operator must involve local government, emergency management, and emergency service officials in the emergency planning hazards analysis process. Being involved with these agencies will enhance emergency plans, show what plans **are** already in place, and nurture a strong working relationship with the local community. It will also help airport operators **identify** potential hazards which are not necessarily located on airport property or otherwise fall outside the jurisdiction of the airport operator, but which are close enough to potentially impact the airport should a problem develop. Examples would be industrial complexes, highways, or railroads nearby which could conceivably be the source of a hazardous materials disaster resulting in the need to alter air traffic routes or to evacuate all or part of the airport.

There are many ways of conducting a hazards analysis, from sophisticated methodologies involving the incorporation of probability values, exposure and vulnerability estimates, to the more simplistic ones. What follows is a hazards analysis program which, while fairly simplistic, should be 'sufficient for most airports / communities.

It is recommended that a broad-based team approach be used for hazard analysis. In addition to airport employees and tenants, involve representatives from local emergency management, emergency services, hospitals, business and industry, as well as elected **officials**, the media and anyone who may have a stake in emergency planning, mitigation, response or recovery activities. The more people and diverse organizations involved, the better the results will be.

Before beginning, it is important to familiarize yourself with several terms:

- Hazard: a situation or natural event having the potential for doing damage to life, property, resources, and the environment.
- Analysis: assessment performed to estimate the effects of hazards on the airport / community.
- Probability: the likelihood that a hazard will occur (expressed in terms of a given time frame).
- Response Management Difficulty: the effect of the magnitude and duration of a hazard occurrence on the airport / community's capability to manage response activities.
- Impact-Risk Exposure: the degree to which people, property, or valued activities are susceptible to injury, disruption, or loss of life

- Vulnerability: a broad statistical measure that accounts for the likelihood of hazard occurrence, population susceptibility, and the extent of potentially adverse affects to the community.
- Disaster: a situation that occurs when a hazard becomes active and its effects surpass the airport/community's tolerance to these effects.

GENERAL PROCEDURES FOR HAZARDS ANALYSIS

Step 1 - Hazards Identification

Start by reviewing the list on the attached Work Sheet. Add or modify as conditions permit. Keep in mind that hazard lists pose two problems. The first is the possibility of exclusion or omission; there is always a potential for new and unexpected hazards (which is why maintaining an ah-hazard capability is important). The second is that such lists involve groupings, which can affect subsequent analysis. A list may give the impression that hazards are independent of one another, when in fact they are often related (e.g. an aircraft crash might also initiate a major structure **fire**; or an earthquake might involve building or bridge failures).

Step 2 - Probability Rating

Probability is the number of chances per year that an incident of a specific or greater size will occur. This can be based on historical factors, experience, and to some degree, scientific reasoning. In this category, estimate frequency and apply the following scoring system:

0 Points - Not possible in our community (volcanic eruption in Manhattan)

1 Point It is possible, but probably won't happen 2 Points It will probably happen, but not very often

3 Points • It is possible and is likely to happen

Steo 3 - Response Management Difficulty Rating

This step is mainly concerned with the magnitude and duration of the hazard occurrence, the airport / community's capabilities to direct and control response activities, and the effects of time on those activities. For example, a long term incident such as extensive flooding or an earthquake would tax resources more than a multi-vehicle accident. Also, since some incidents (such as flooding or an earthquake) cover wide geographic areas, local community emergency response assistance to the airport may be very limited; the airport may be more on its own in terms of response and recovery. This where it is important to have the local community involved in the process in order that mutually agreeable priorities regarding resource utilization may be established as a part of the planning process. Another example would be an aircraft accident on the airport may be easier to handle than if the same incident would occur off the airport in the water or rough terrain. The scoring system for this step is as follows:

0 Points • Absolutely no problem, routine

1 Point • Can be managed with local resources

2 Points - Would require assistance from local communities

3 Points • Would require considerable support from state and federal agencies

Step 4 - Vulnerability Factor

The vulnerability factor is determined by adding the points across the **row** of categories (Probability Rating plus Response Management Difficulty equals Vulnerability Factor) for each hazard. Write the total in the Vulnerability Factor column.

Step 5 - Ranking the Hazards

All completed work sheets should be collected and an average Vulnerability Factor for each hazard calculated. A list should then be developed ranking the hazards from the highest score to the lowest. This will provide rankings and help you determine which hazards pose the greatest **threat** to the airport / community and therefore, where to place **planning** and resource priorities. Threshold score may be developed. From a **planning** standpoint, scores above this **threshold** will provide data for planning, and scores falling below may be disregarded.

Summary

The completed Hazards Vulnerability Analysis can be used to:

- 1. Develop planning priorities;
- 2. Develop hazard maps;
- 3. Educate emergency response personnel, elected officials and other decision-makers, as well as the general public;
- 4. Develop realistic plans and resource management strategies; and
- 5. Prepare mitigation programs.

As previously stated, this program is very simplistic. There may be certain identified hazards for which a more detailed analysis is appropriate. It is also recommended that the analysis be accomplished at regular intervals to accommodate changing situations and technologies.

HAZARDS VULNERABILITY ANALYSIS WORK SHEET					
Hazard	Probability	Response Difficulty	Vulnerability Factor		
Aircraft accident - off airport					
Aircraft accident - on airport					
Aircraft accident - rough terrain					
Aircraft accident - water					
Boating accident					
Bomb threat/found					
Bridge collapse					
Building collapse					
Civil disturbance					
Communications system failure					
Computer system failure					
Dam/levee failure					
Drought					
Earthquake					
Epidemic, disease					
Fire - major structure					
Fire - brush, forest, prairie					
Flood					
Food poisoning - extensive					
Fuel shortage					
Hazardous materials incident					
Hostage situation (non-terrorist)					
Hurricane					

HAZARDS VULNE	RABILITY ANAL	YSIS WORK SHE	ET	
Hazard	Probability	Response Difficulty	Vulnerability Factor	
Labor problems - serious	,			
Landslide				
Lost person(s)				
Mass casualty incident				
Natural gas outage				
Nuclear attack				
Nuclear facility incident				
Pollution - air				
Pollution - water				
Power failure				
Radiological Incident				
Rapid transit accident				
Sandstorm / Dust storm				
Sewer explosion				
Sewer system failure				
Ship incident - harbor				
Terrorist				
Tornado				
Train accident - freight				
Train accident - passenger	M ·			
Tsunami (tidal wave)				
Vehicular accident - major	[1	[
Volcano eruption				
Water supply. failure				

Probability	Response Difficulty	Vulnerability Factor
		·
	Probability	

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APPENDIX 2. AIRPORT EMERGENCY PLAN EXERCISE EVALUATION CHECKLIST

INTRODUCTION

The Checklist that follows is intended to be a guide for those individuals tasked with planning for, or evaluating, airport Emergency Operations Plan drills and exercises.

In planning for a full scale exercise, the minimum number of "casualties" to be used should be based on the following:

	Millilliulii #
Airport Index	"Casualties
A	20-30
В	40- 50
\boldsymbol{c}	60-70
D	80 - 90
E	100 or more

	Review Item	Yes (✓)	No (✓)	N/A (✓)	N/O (✓)
T	Pre-exercise activities	165 (4)	(100 (0)
	A. Was an exercise planning committee established?				
	B. Were drills/tabletops conducted in preparation for the				
κ ·	full scale exercise?			,	
	C. Were exercise objectives developed?				
<u> </u>	Did they adequately test the emergency plan?				
	2. Were they realistic?				
	3. Were they measurable?				
	4. Were they coordinated with participating agencies?				
	D. Was a scenario developed?				
	1. Was it realistic?			-	
	2. Was there a time line?				
	3. Did the scenario support the objectives?				
	E. Was the site satisfactory?				
	1. If no, explain:				
ŕ					
	T W1				
	F. Were evaluators assigned?				
	 Were there enough? Were they qualified? 				
	3. Were they quanted?				·
<u> </u>	4. Was an evaluation checklist provided?			<u> </u>	
 	G. Were exercise safety guidelines established?				
-	Did they include:				
\vdash	a) An emergency termination procedure?				
	b) A code word for individuals in the event an		:		
	actual injury occurs?	l .			
	2. Was there a safety briefing for all participants?				
	3. Briefly describe the termination procedure.				
	H. Were liability issues addressed in advance?				
	I. Was advance notice of the exercise given to:				
	 the public? the media? 				1
ļ					
	3. airport tenants?	-			
-	J. Were there exercise controllers?1. Were there enough?				
-	2. Were they qualified?				
—	3. Were they trained?				I
\vdash	K. "Casualties"				
-	1. Was there a sufficient number?				
	1. Was there a sufficient number?	L	L	<u> </u>	L

Review Item	Yes (✓)	No (✓)	N/A (✓)	N/O (✓)
a) Number of "injured"				
b) Number of "uninjured"				
c) Number of "deceased"				
2. Were they briefed on responsibilities?				
3. Were they given a safety briefing?				:
4. Were they moulaged?				
5. Were adequate sanitary facilities available?				
6. Was food/drink available?				
7. Was them a "casualty" accountability/tracking plan?				
8. Was first aid available?		e e e e e e e e e e e e e e e e e e e		
9. Were there comfort provisions for inclement weather?	•			
_ L. Spectators				
1. Were there adequate provisions for viewing the exercise?				
2. Were they given a safety briefing?	E			
3. Were they adequately controlled?				

REMARKS:

Review Item	Yes (✓)	No (✓)	N/A (🗸)	N/O (🗸)
II. Exercise Activities				
A. Personnel Mobilization				
1. Describe initial exercise activation procedure:			ĺ	
a) Note time exercise	-			
commenced:				
commenced.				
2. Indicate mobilization procedure(s) for on-airport				
response personnel:				
Pager Radio Call				
Telephone Call List -Alarm System				
Other				
N-4- (i 1:11-41	-			
a) Note time mobilization commenced:	-			
b) Note time first unit arrived on scene:				
o) 1000 time inst time time time on seems.				
3. Indicate mobilization procedure for off-airport				
response personnel:				
Pager -Radio Call				
Telephone Call List				
Other				
a) Note mobilization time commenced:				
a) Note modifization time commenced.	-			
b) Note time first units/personnel arrived at the	+			
scene/staging area:				
c) Describe who made the notifications:				
	_			
	-			
1) W	_			
d) Were contacts made in accordance with established plans/procedures?				
4. Were contact lists current and complete?				
5. Was there a system to track responding agencies/			1	†
personnel?				1
a) Describe the system:				
	_			
	_			
	-			
	-			
	-			

Review Item 6. Did all agencies called for in the scenario respond?	Ycs (✓)	No ((C)	N/A (\\ \)	N/O (✔)
6. Did all agencies called for in the scenario respond?				
a) If not, who was missing:				
missing.				
DEMARKS				
REMARKS:				

N/A = Not Applicable

Review Item	Yes (✓)	No (✓)	N/A (✓)	N/O (✓
B. Direction and Control				
1. Was an individual in charge?				
a) If yes, Name: Title:				
(1) Did this individual provide effective leadership?				
(2) Was this individual readily identifiable? If yes, describe how:				
2. Was decision-making coordinated with key staff?			·	
Was decision-making coordinated with other participating agencies?				
4. Were periodic briefings held?		į		
5. Was a copy of the emergency plan/procedures available?				
a) Were they current?b) Were they used?				i
6. Was an Incident Command System (ICS) used?				
a) If yes, was it effective?				
7. Were there any direction and control problems? If yes, describe:				
MARKS:				

N/A = Not Applicable N/O = Not Observed

Review Item	Yes (✓)	No (🗸)	N/A (✓)	N/O (✓)
c. Communications				
1. Identify the systems used: Radio Fire/EMS Net Police N	let			
-Ground Control Airport Emergency Management Air/grou				
Amateur RadioOther				
Telephone -CommercialCellular				
Computer linksOther Facsimile				
Was there a common dedicated frequency for managing the emergency?			`	
a) If no, should there be one?				
Could the primary communications system (s) handle the flow of information with undue delay	?'			
4. Were back-up systems available?				
a) Were they demonstrated?				
5. Were communications protocols for information gathering/dissemination developed?	n			
a) If yes, were they properly used?				
b) If no, should they be developed?				
6. Was there a message flow system for incoming/ outgoing messages?				
a) Were copies of all messages kept?				
7. Were messengers used in high noise areas?				
8. Were there any communications problems? If yes, describe:				
				
REMARKS:				

Review Item	Yes (✓)	No (✔)	N/A (✓)	N/O (🗸)
D. Facilities, Equipment, and Displays				
Was a mobile command post established?		-		
a) Was it easily identifiable?				
b) Was it properly equipped?				
(1) Was adequate communications equipment		en en en en gen		**********
available?				
(2) Was a copy of the emergency plan/				
procedures available?		* -		
(a) Were they current?				
(a) Were they used?				
2. Was an Emergency Operations Center (EOC)		in the second		
established?				
a) Was it properly equipped?				
(1) Were adequate communications available?		Y s		
(2) Was a copy of the emergency plan/		1.1		
procedures available?				
(a) Were they current?				
(a) Were they used?	×			
b) Was access controlled?				
c) Was back-up power available?	-			
a) Were maps and status boards available?				
(1) Were they prominently displayed?				
b) Was a computer used in support of the				
emergency operation?				
(1) If yes, describe how:				
() ~ J~ ;				
]			
c) Was a log of events/actions taken maintained?	_			
2. Was there a remote staging area for vehicles				
(ambulances/buses,etc.)				
a) If yes:				
(1) How many were there?				
<u> </u>				
(2) Was each readily identifiable?				
(3) Was each one adequate in terms of				
() I () 9		, .		
(a) Location?				1 2 2 2 2
(a) Location? (b) Size?				
(b) Size? (c) Ingress/egress routes?		· ·		
(b) Size?				
(b) Size? (c) Ingress/egress routes?				
(b) Size? (c) Ingress/egress routes? (4) Was there an individual in charge of the				
(b) Size? (c) Ingress/egress routes? (4) Was there an individual in charge of the staging area? (a) If yes, was this individual readily identifiable?				
(b) Size? (c) Ingress/egress routes? (4) Was there an individual in charge of the staging area? (a) If yes, was this individual readily				
(b) Size? (c) Ingress/egress routes? (4) Was there an individual in charge of the staging area? (a) If yes, was this individual readily identifiable? If yes, describe how:				
(b) Size? (c) Ingress/egress routes? (4) Was there an individual in charge of the staging area? (a) If yes, was this individual readily identifiable?				
(b) Size? (c) Ingress/egress routes? (4) Was there an individual in charge of the staging area? (a) If yes, was this individual readily identifiable? If yes, describe how: (5) Were adequate communications available?				
(b) Size? (c) Ingress/egress routes? (4) Was there an individual in charge of the staging area? (a) If yes, was this individual readily identifiable? If yes, describe how:				

times? b) If no, is a transportation staging area needed? 3. Was there a staging area for support aircraft (helicopters, fixed wing)? a) If yes: (1) How many were there? (2) Was each readily identifiable?				
3. Was there a staging area for support aircraft (helicopters, fixed wing)? a) If yes: (1) How many were there?				
(helicopters, fixed wing)? a) If yes: (1) How many were there?				
a) If yes: (1) How many were there?				
(1) How many were there?				
(2) Was each readily identifiable?				
(-) 3-3-3-1-1				
(3) Was each one adequate in terms of:				
(a) Location?		-		
(b) Size?				
(c) Ingress/egress routes?	٠.			
(4) Was there an individual in charge of the				
(a) If yes, was this individual readily identifiable?				: .
identifiable?				
lfyes, describe how:			·	
(5) Were adequate air/ground communications available?				
b) If no, is an aircraft staging area needed?	1.7			
Was there a staging area for personnel				
a) If yes:				
(1) How many were there?				
(2) Was each readily identifiable?				
(3) Was each one adequate in terms of:				
(a) Location?				
(b) Size?				
(c) Ingress/egress routes?				·
(4) Was there an individual in charge of the staging area	÷ -			
(a) If yes, was this individual readily identifiable?				
If yes, describe how:				* *
(5) Were adequate communications available?				
b) If no, is a personnel staging area needed?	4 1.4			

Review Item	Yes (✓)	No (✓)	N/A (✓)	N/O (✓)
E. Emergency Response				
1. Aircraft Rescue and Firefighting (ARFF)				
a) Identify how they were notified about the emergency: Alarm systemTelephoneRadioOther				
b) Was their response timely?				
Identify the first unit to arrive: Time first unit arrived: Time last unit arrived:				
c) Did all designated units arrive at the scene?				
(1) If no, explain:				
d) Was their response effective and accomplished				
in accordance with established procedures?				
e) Were ARFF personnel properly equipped?				
f) Was all proper protective gear worn?		8 1 1 1 Na		
g) Was an individual clearly in charge?			1 / 7 / 7	
(1) Was this individual readily identifiable? Describe how:				
h) Was the situation properly assessed?				
i) Was a passenger manifest available?				
j) Was a cargo manifest available?				
(1) Were any hazardous materials mvo lved? If yes, Describe:				
(a) Were they properly handled?				
k) Were preservation of evidence rules followed? Notes/diagrams Pictures Video Other				
1) Were uninjured "casualties" directed to safe			. W	
m) Were ARFF personnel able to reliably communicate with: (1) the Command Post/EOC?				
(2) each other?				

Review Item	Yes (✓)	No (✓)	N/A (✓)	N/O (✓)
2. Medical Assistance				
a) Hospitals, medical facilities				
(1) Did any participate in the exercise?				
(a) If yes, list:				
(1) Were they given regular status reports?				
(a) If yes,				
By whom?				
By whom:				
(b)				
How?'				
	<u> </u>			
(2) Could they communicate with:				
(a) the Command Post/EOC?				
(b) transport units?				
b) Medical personnel (doctors, nurses)				
(1) Did any medical personnel participate in the exercise at the scene?				
(a) If yes,				
Approximate number of doctors:				
reproximate number of doctors.				
(b) Approximate number of muses:-				
(c) Did they arrive in a timely manner?				
Time first medical person arrived:-	A			
		ļ <u></u>		
(d) Were they familiar with their	1			
responsibilities under the emergency				
plan/procedures (where to go/what to do)?	A second second	-		
(e) Was an individual in charge?				
(f) Was this individual readily identifiable?			· · · · · · · · · · · · · · · · · · ·	
Describe				
how:				
			3	-1.
(g) Could this individual communicate				
with:				
(i) the Command Post/EOC?				
(ii) the hospital(s)		1000 5 10 10 10 10 10 10 10 10 10 10 10 10 10		
c) Rescue squads, ambulance services	130/1346 33 44			
(1) Did any rescue squads, ambulance services				
participate in the exercises?				
(b) Were they familiar with their responsibilities under the emergency				
plan/procedures (where to go/what to				
do)?				
(c) Was an individual in charge?				
	•			

ÿ ,

Yes (✓)	No (✓)	N/A (/)	N/O (✓)
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	` '	, /	
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+	*		
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7			
-			
			Y
	<u> </u>		
	:		
-			
-			
<u> </u>			
	Yes (\$\sigma\$)		

N/A = Not Applicable

Review Item	Yes (🗸)	No (✓)	N/A (✓)	N/O (✔)
Time last "casualty" transported:			, ,	
e) Was there an accountability system for the injured (who went where)?	<u> </u>			
injured (who went where)? Describe:				
A W daivers answided with more to hospitale?				
f) Were drivers provided with maps to hospitals?				
3. Coroner a) Did the Coroner's office participate in the				
a) Did the Coroner's office participate in the exercise?				
(1) If yes,	100		·	
Did they arrive in a timely manner?				
(2) Were they familiar with their				• !
responsibilities under the emergency				
plan/procedure (where to go/what to do)?		: .:	-:	
(3) Was an individual in charge?				
(4) Was this individual readily identifiable? Describe how:				İ
Describe now.				
	-			
(5) Could this individual communicate with:				
(a) the Command Post/EOC?	-			
(a) the Command Tospec: (b) the morgue?				
(c) other agencies?				
(6) Was a temporary morgue established?				
(a) Location:				
(a) Location.	1			l
	1			
(7) Were adequate measures taken to mark the location of "dead" before they were moved?				
(8) Were preservation of evidence rules followed?				
Notes/diagrams Pictures				ĺ
V i d e o				İ
Other				İ
	word of the second seco		***************************************	
4. Clergy/Critical Incident Stress Personnel			(\$1) (\$4) (\$4 \$	
a) Did any clergy/critical incident stress personnel				İ
participate in the exercise?				
(1) If yes:				
Approximately how many?				
(2) Did they arrive in a timely manner?				
(2) Did they arrive in a timely manner? (3) Were they familiar with their	1			
responsibilities under the emergency				ĺ
plan/procedures (where to go/what to do)?				1 .
(4) Were they readily identifiable?				
Describe		l ·	. [1
how:		•		•
110 111	•			

Review Item	Yes (J)	No (√)	N/A (🗸)	N/O (✓)
(5) Was someone designated to observe				
responders for critical incident stress?				
(6) Was an area away from the site designated				
as a rest and relaxation area for responders?				
(7) Were responders rotated out of the response				
area to rest and recuperate from the stress				
imposed by the accident?				
5. Law enforcement				
a) Did any law enforcement personnel participate				
in the exercise?				
(1) If yes:				
Approximately how many:				
(2) Did they arrive in a timely manner?	1. 1.			
Identify the first unit to arrive:		·		
Time first unit arrived:				
(3) Were they familiar with their				
responsibilities under the emergency				
plan/procedure (where to go/what to do)?.			1.4	
(4) Was an individual in charge?				
(5) Was this individual readily identifiable?				
Describe	,			
how:				
now.				ŀ
(6) Could this individual communicate with:				
(a) the Command Post/EOC?				
	-			
(b) traffic control points?		· · · · · · · · · · · · · · · · · · ·		
(c) access control points/site security?	. 3	100 V 1 V 1 V 1 V 1 V		
b) Was access control/site security established?				
(1) If yes,				
describe:			İ	1
	_			
VVV 000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1
c) Were traffic control points established?	100000000000000000000000000000000000000	L	3 	
6. Supplementary Assistance		9000.000 (100000000)		
a) Did off-airport fire companies participate in the				
exercise?				
(1) If yes,				
Did they arrive in a timely manner?				
Identify the first unit to <u>arrive</u> :				
Time first unit arrived:				
(2) Were they familiar with their				
responsibilities under the emergency				
plan/procedure (where to go/what to do)?				1
b) Did the local emergency management agency		1		1
participate in the exercise?	a ju	1	la constant de la con	4
(1) If yes, describe their role:		l		
		1	4	4

	ew Item	Yes (✓)	No (✓)	N/A (✓)	N/O(/)
	riers or other aircraft owners/				•
	cipate in the exercise?				
(1) 11 3003,					
Identify:					
	familiar with their				
	ies under the emergency				
plan/proced	tures (where to go/what to do)	?			
d) Did any support	aircraft (helicopters/fixed				
	in the exercise?				
(1) If yes,					
Did they arr	rive in a timely manner?			19.0	
Identify the	he first unit to arrive :			·	
Time firs	st unit a <u>rrived:</u>				
· · · · · · · · · · · · · · · · · · ·					
	familiar with their				
	ies under the emergency				
plan/procedu	ares (where to go/what to do)	?	ļ		
	organizations/personnel				
participate in th	ne exercise?				
(1) If yes,					
	ccordance with established		•		
plans/proce					
(2) Describe wl	ho they were:				
		_l			
-					
REMARKS:					

N/A = Not Applicable N/O = Not Observed

Review Item	Yes (✓)	No (✓)	N/A (✓)	N/O (√)
F. Public Information				
1. Was the local community informed about the				
ongoing exercise?				
a) If yes, describe the method used:				
2. Was the traveling public informed about the				
ongoing exercise?				
a) If yes, describe the method(s) used:	Į.			
	4			
3. Were airport tenants informed about the ongoing exercises?				
a) If yes, describe the method used:				
4. Were there provisions for handling the media?				
a) If yes,				
Describe:				
Joint Information Center (JIC)				
Media Center				
Informational briefings				
Other	4			
(4) *** 1 0 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
(1) Was the facility adequately equipped?				<u> </u>
(a) Were sufficient telephone lines				
available?	 	1	1	1
(b) Were status boards and maps displayed?				
(c) Was a public address system available?		<u> </u>	 	
(2) Was an individual clearly in charge?	-			+
(a) Name: Title:	-			
11tte				
(3) Were representatives from all involved	-	 		
agencies present?				
Name agencies:				
Traine ageneres.				
(4) Did the briefer(s) have access to timely and	1			
accurate information?				
(5) Identify by name and title those individuals				
authorized to make press releases:				
	_			
	4			
(6) W				
(6) Were regular briefings held?	4	4		-
(7) Were the media allowed access to the accident site?		¹ / ₂		
(a) If yes, describe how access was	1			
controlled:	.			
		1	1	

	Review, Item	Yes (✓)	No (🗸)	N/A (🗸)	I N/O (🗸)
	Exercise Termination				,
1.	Was the exercise terminated on schedule? Time terminated:				
2.	Was it clear to all participants when aud how the exercise was to be terminated? Describe termination procedure:				
3	. Were all participants , including "casualties," accounted for?				
4	. Was all equipment inventories and accounted for?				

N/A = Not Applicable N/O = Not Observed

A2-17

AC **150/5200-31A** Appendix2

Review Item	Yes (✓)	No (🗸)	N/A (✓)	N/O (✓)
III. Critique				
A. Immediate				
1. Were all participating groups, including the "casualties," assembled immediately after the exercise to solicit their comments?				
a) If yes, were their comments recorded?				
(1) By whom?				
	-			
(2) Did the critique appear to be productive?				
B. Follow-up Critique				
Was a follow-up critique scheduled for a later date?				
C. Evaluators				
Was the exercise adequately evaluated?				
2. Were evaluator reports collected and reviewed?				

REMARKS:

No (✓)	N/A (✓)	N/O (✓)
 1		200000000000000000000000000000000000000
		, i
		;



APPENDIX 3. AIRPORT EMERGENCY PLAN REVIEW CHECKLIST INTRODUCTION

AIRPORT OPERATOR (CERTIFICATE HOLDER)

The following checklist is intended to be a guide for those certificated airports which are tasked with developing an Airport Emergency Plan (AEP). To assist in the development of the AEP, as well as the review and approval process by the FAA, the airport operator should complete the page reference column on the checklist and submit it with the AEP.

NOTE: The letters and numbers contained in parentheses on the checklist are references to the appropriate requirements found in Part 139.325.

AIRPORT CERTIFICATION AND SAFETY INSPECTORS (ACSI)

The following checklist is intended to be a guide for the ACSI during the review and approval of the Airport Emergency Plan (AEP). He/she is required to ensure that all elements of checklist are properly addressed within the AEP and documented on the checklist. Any elements which are not properly addressed should be referred back to the airport operator.

AIRPORT EMERGENCY PLAN REVIEW CHECKLIST

Inspect <u>or:</u> Airport:Da	ate:
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Item	Page Ref.	S	U
Aircraft Incidents and Accidents			
A. Plans			
1. Largest air carrier type (c)(1)			
2. Identification of response agencies/personnel			
a) Hospitals/Medical Facilities			
(1) Name (c)(2)			
(2) Location (c)(2)			
(3) Telephone # (c)(2)			
(4) Emergency capacity (c)(1)		*	
b) Medical personnel (doctors, nurses, etc.)			
(1) Business Address (c)(2)			1
(2) Telephone # (c)(2)			
c) Rescue squad, ambulance service, military installation, government agency			:
(1) Name (c)(3)			
(2) Location (c)(3)			
(3) Telephone # (c)(3)			
d) Law Enforcement (c)(6)			
e) Rescue and Firefighting			
(1) Name (c)(3)			
(2) Location (c)(3)			
(3) Telephone # (c)(3)	,		
f) Principle tenants (including air carriers and Control Tower)			
(1) Name (c)(3)			
(2) Telephone # (c)(3)	. 1		
g) Equipment inventory			
(1) Surface vehicles/aircraft to transport injured/ deceased			
(2) Hangars/buildings to accommodate uninjured, injured, and deceased (c)(5)			
h) Removal of disabled aircraft agencies (responsibilities or capabilities) (1) Name (c)(7)			
(2) Location (c)(7)			
(2) Everation (c)(7) (3) Telephone # (c)(3)			
i) Agreements (c)(2,3,6)			

Item	Page Ref.	S	U
j) Communications network (a)(1)			
k) Plan Coordination (g)(1)			
1) Plan development (gX2)			
B. Procedures			
1. Injured and uninjured accident survivors			
a) Marshaling (d)(1)			
b) Transportation (d)(1)		25.00	r : 5
c) Care (d)(1)			
2. Removal of disabled aircraft (d)(2)		1	
3. Emergency alarm systems		•	1.1
4. Airport/Control Tower emergency action coordination		h i i i i	
5. Notification of support agencies of an aircraft accident			
a) Hospitals/Medical facilities (e)			
b) Medical personnel (e)			
c) Rescue squad, ambulance services, military			
installation, government agency (e) d) Crowd control agencies (e)		en a light of the second	· .
e) Disabled aircraft removal agencies (e)			
6. Water rescue (f)		1.17	
a) Sufficient water rescue vehicles (f)			
7. Triennial full scale exercise (g)(5)		* **	
(6)(-)			
II. Bomb Incidents	1 1 2 2 4 2 4 2 4 2 4 4 4 4 4 4 4 4 4 4		
A. Plans		4	
1. Designated parking area			
2. Identification of response agencies/ personnel			
a) Law Enforcement			
(1) Name (c)(6)			· · · · · · · · · · · · · · · · · · ·
(2) Location (c)(6)			A
b) Rescue and firefighting			
(1) Name (c)(3)		1.1	
(2) Location (c)(3)			
(3) Telephone # (c)(3)			
c) Principal tenants (including air carriers and Control		et e e	
Tower) (1) Name (c)(3)			
(1) Name (c)(3) (2) Telephone # (c)(3)			
- 1111			
d) Equipment inventory (1) Surface vehicles/aircraft to transport			
(c)(4) injured/deceased			
(2) Hangars/buildings to accommodate uninjured, injured, and deceased (c)(5)			

Item	Page Ref.	S	U
e) Agreements (c)(2,3,6)			
f) Communications Network (a)(1)			
g) Plan coordination (g)(1)			
h) Plan development (g)(2)			
i) Training (airport personnel only (g)(3)			
j) Annual review (g)(4)			
B. Procedures			
III. Structural Fires			
A. Identification of response agencies / personnel	1		1
1. Law enforcement		1	1
a) Name (c)(6)			
b) Location (c)(6)			
2. Rescue and firefighting			
a) Name (c)(3)			
b) Location (c)(3)			
c) Telephone # (c)(3)			+
.,,,			
Principal tenants (including air carriers and Control Tower)			
a) Name (c)(3)			
b) Telephone #(c)(3)			
4. Equipment inventory			
 a) Surface vehicles/aircraft to transport injured/deceased (c)(4) 			
b) Hangars/buildings to accommodate uninjured, injured, and deceased (c)(5)			
5. Agreements (c)(2,3,6)			
6. Communications network (a)(1)			
7. Plan coordination (g)(1)			
8. Plan development (g)(2)			
9. Training (airport personnel only) (g)(3)			
10. Annual review (g)(4)			
B. Procedures			
IV. Natural Disasters			
A. Plans			
1. Identification of response agencies / personnel			
a) Law enforcement			
b) Name (c)(6)			
c) Location (c)(6)			+